

# AMERICAN NURSERYMAN

*The Nurseryman's Forte: To Make America More Beautiful and Fruitful*

APRIL 1, 1941

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**Nurserymen Exhibit at Spring Shows**  
**Selecting the Best Perennials**  
**Digging and Storing Nursery Stock**  
**Selection of Broad-leaved Evergreens**

## Editorial

### DEFENSE GARDENS.

While well informed horticultural writers in newspapers and public magazines seek to forestall the hysteria which would spread in this country the slogan from across the waters, "Dig to Victory," a great deal of talk and writing about defense gardens comes from persons who have thought less about the subject and whose experience possibly does not extend back a quarter century to war conditions in this country.

Even a little reflection would bring the realization that the countries of Europe are dependent even in normal times for cargoes of grain and beef from other continents. Wartime blockade consequently reduces supplies of these prime foodstuffs. Less important are the supplies of vegetables that can readily be grown in the home garden, except insofar as some of them may provide partial substitutes for the staples of bread and meat. Even in England, most dependent upon imports, it was found that indiscriminate production of vegetable crops would be wasteful if long-established dietary habits were not changed, for acres of lettuce were left to spoil for lack of demand in the surge of production after the war started.

In this country, on the contrary, farmers have been complaining of the effects of overproduction before the war broke out in Europe. Our government is still practicing crop control. The wide use of farm machinery and better types of seeds are increasing yields per acre. Indications of any shortages of foodstuffs in the United States are still far away.

This is not to deny the advantages of a home vegetable garden for the sake of economy and obtaining a well balanced diet. Few persons eat the proportion of leafy and root vegetables that the doctors recommend.

But for national defense there is no reason to replace lawns and rose gardens with vegetables. A balanced garden is as important as a balanced diet. Let us urge that our country be made fruitful in its broad sense, but there is not now or in the foreseeable future any emergency that requires that we

## The Mirror of the Trade

or the public curtail or defer efforts to make our country more beautiful.

### GROUP PUBLICATION.

Beginning its fifth volume this year, the 4-page monthly publication of the North Jersey Metropolitan Nurserymen's Association, entitled "Garden Craft," shows such vast improvement over its early issues that other similar groups seeking ways to make contact with the public might take courage and start something.

The beginnings of "Garden Craft" were faltering. The committee in charge of the preparation of copy found the going difficult, and the printing was more economical than attractive. But the issues of the past year show that the committee has found how to fill the four pages of 8-point type with interesting garden material, and the printing is neat and pleasing without being expensive. Perhaps commendation here is not important, because the improvement and the continuation of this little publication show that the members of the North Jersey association have found it successful in its mission.

This group is composed of retail nurserymen and landscape planters in the thickly populated suburban area of northern New Jersey. In other ways than this, they have shown themselves a live and energetic group.

"Garden Craft," consisting of four pages, 6x9 inches, is published monthly and distributed free, each member imprinting his name and address in space allotted at the bottom of the fourth page. Conspicuous on the first page is the emblem of the association flanked by these words: "Look for the emblem of quality." "Service and guaranteed satisfaction." A few appropriate paragraphs for homeowners appear under the heading, "Timely Garden Hints." Several articles of varying length follow, perhaps a description of a tree, something about soils or fertilizers or instructions on pruning or planting; indeed, the contents are quite varied from issue to issue, though all relate to home gardens.

A committee compiles the material, members no doubt writing some from their own experiences and knowledge, while gathering the rest from various sources, such as the experiment sta-

tion publications and occasionally the columns of the *American Nurseryman*.

There is any quantity of such material available to the nurseryman in touch with it, but not likely to reach the public—meaning thereby the average homeowner and not the enthusiastic gardener. Such a publication as this fosters and nourishes an interest in gardening, besides being a monthly reminder of the available services of the nurseryman who sends it out.

Some day this same type of thing will be done in dozens of other metropolitan areas. In fact, we wonder why other local landscape groups have not approached the North Jersey association on printing for them extra copies of the publication with their own title and masthead—syndicate it, so to speak.

### BUILDING KEEPS UP.

Expectations that demand will continue good during the current year for planting about new homes are borne out by the following paragraph in the recent issue of a weekly analysis of economic developments and tendencies prepared by the staff of Dow, Jones & Co.

"Despite earlier fears that the defense program would act as a brake on home building, there has been no indication as yet of any slowing up in the demand for small homes. In fact, volume in February was the largest for that month since 1928. All signs at present point to a continuation of this trend in the immediate future. Whether there is any interruption later in the year will depend on how the defense program is coming along at that time. If, as has been intimated recently, it should become necessary to curtail nondefense work, it is not unlikely that some types of private building will be curtailed, especially in the residential field. However, since public construction is expected to continue at a high level for quite some time yet, total construction volume for the year is almost certain to top that of 1940 by a fair margin."

HAROLD SPAULDING, formerly of Ceres, Cal., has purchased the Sweetwater Nursery, 1528 Highland avenue, National City, Cal.

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## CONTENTS

Nurserymen Exhibit at Spring Shows (illus.) .....	5
Selecting the Best Perennials.....	9
By D. R. METZGER	
Selection of Broad-leaved Evergreens.....	11
By L. C. CHADWICK	
Scenic Sights on Convention Cruise (illus.) .....	13
Charlie Chestnut .....	18
Rooms for Tourists	
Excerpts from a Plantsman's Notebook.....	26
By C. W. WOOD	
Digging and Storing Nursery Stock.....	32
By FLOYD A. OATMAN	
Diseases of Trees.....	34
By LEO R. TEHON	
This Business of Ours.....	36
By ERNEST HEMMING	
Cover Illustration Notes.....	24

Editorial .....	2	Taxus Media Hicksi.....	24
—Defense Gardens .....	2		
—Group Publication .....	2	North Jersey Election.....	24
—Building Keeps Up.....	2	Hess-Hallicy Wedding .....	24
Obituary .....	10	New Plant Patents.....	30
—Archibald McGill (portrait).....	10	Twin Cities Meeting.....	30
—William De Bree.....	10	North Dakota Contract.....	31
—William L. Hysinger.....	10		
Tennessee President .....	12	Washington Notes.....	42
—James N. Lyon (portrait).....	12	Washington Peat Moss.....	42
		California Notes.....	43
Convention Cruise .....	13		
—Avery H. Steinmetz (portrait).....	13	Lake County Credit Plan.....	46
		Starts Garden Column.....	48
Street Tree Survey.....	14	Catalogues Received.....	48
Bryant Golden Wedding.....	14	Kentucky Contract .....	50

# INDEX TO ADVERTISERS

Adams Nursery, Inc. ....	33	Garden Shop .....	51	Outpost Nurseries, Inc. ....	24
Aeroil Burner Co. ....	49	Gardner Nurseries, Clark .....	49	Owen & Son, Inc., T. G. ....	37
Alanwold Nursery .....	47	Gardner's Nurseries .....	24	Pastor Wholesale Nursery, A. ....	42
Albright's Nursery .....	35	Geraghty & Son, John .....	41	Pearce, Rex. D. ....	35
American Agricultural Chemical Co. ....	46	Gillett's Nurseries .....	28	Peekskill Nursery .....	29
American Chemical Paint Co. ....	52	Gladwood Gardens .....	47	Perennial Nurseries .....	35
American Color & Chemical Co. ....	51	Goodrich Co., B. F. ....	46	Perry Nursery Co., O. H. ....	38
American Florist Supply .....	50	Gravelly Mfg. Co. ....	49	Peterson & Dering, Inc. ....	43
Andrews Nursery .....	41	Hansen Nursery, Carl A. ....	40-42	Ponten Mfg. Co. ....	46
Ariens Co. ....	51	Harmon Nursery .....	24	Portland Wholesale Nursery Co. ....	42
Bagatelle Nursery .....	31	Herbst Bros. ....	29	Princeton Nurseries .....	31
Bailey Nurseries, J. V. ....	39	Hess' Nurseries .....	31	Process Color Printing Co. ....	50
Baker Bros. Nursery .....	47	Hill Nursery Co., D. ....	21	Rambo's Wholesale Nurseries .....	40
Bartlett Mfg. Co. ....	44	Hobbs & Sons, C. M. ....	41	Rare Plants Nursery .....	47
Bausher, Richard V. ....	34	Hogansville Nurseries .....	41	Rich & Sons Nursery .....	43
Bay State Nurseries, Inc. ....	20	Holton & Hunkel Co. ....	37	Richland Gardens .....	49
Bealle, J. B. ....	37	Hoogendoorn, C. ....	47	Richton Park Nursery .....	38
Bear Creek Evergreen Nursery .....	39	Horsford, William Crosby .....	35	Robinson, E. D. ....	29
Bobbink & Atkins .....	31	House of Gurney, Inc. ....	39	Rototiller, Inc. ....	50
Bountiful Ridge Nurseries .....	33-39-41	Howard-Hickory Co. ....	34	Scarff's Sons, W. N. ....	41
Boxwood Gardens .....	37	Howard Rose Co. ....	43	Schifferli & Son Nurseries, F. E. ....	41
Boyd Nursery Co. ....	35	Hummert Seed Co., A. H. ....	44	Scott & Sons Co., O. M. ....	44
Brand Peony Farms .....	39	Hunter, Geo. W. ....	47	Shelby Plant Farms .....	41
Brick Nursery, L. P. ....	35	Ittner Bros. ....	49	Sherman Nursery Co. ....	35
Brimfield Gardens Nursery .....	33	Jackson & Perkins Co. ....	28	Sherwood Nursery Co. ....	43
Burr & Co., C. R. ....	29	Jewell Nurseries, Inc. ....	39	Smith & Sons, Ltd., E. D. ....	32
Burton's Hilltop Nurseries .....	34-37	Kallay Bros. Co. ....	37	Smith Gardens .....	35
Byers Nursery Co. ....	38	Kelly Bros. Nurseries .....	40	Southern Nursery Co. ....	41
C. & B. Line .....	15	Kemp Mfg. Co. ....	49	Standard Engine Co. ....	50
California Spray-Chemical Corp. ....	45	Kenyons Nursery .....	19	State Road Nursery .....	30
Campbell-Hausfeld Co. ....	48	Kingsville Nurseries, Inc. ....	28	Studley Nursery, Walter A. ....	37
Carpenter & Co., Geo. B. ....	51	Koster Co., Inc. ....	29	Summit Nurseries .....	40
Chase Co., Benjamin .....	51	LaBars' Rhododendron Nursery .....	21	Sunnyview Nurseries .....	51
Cloverset Flower Farm .....	45	Lake's Shenandoah Nurseries .....	21	S-W Supply Co. ....	50
Coe, Ralph R. ....	37	Lee County Peat Co. ....	50	Swink Nursery Co. ....	37
Conigisky, B. F. ....	50	Le-Mac Nurseries .....	22	Tabor Co., Rollin H. ....	50
Connor Lumber & Land Co. ....	50	Leonard & Son, A. M. ....	49	Tapscott's .....	36
Conwell, Inc., H. Ernest .....	33	LePore, Henry .....	35	Tardif Domestic Peat Sales Co. ....	51
Coolidge Rare Plant Gardens .....	47	Lewis Nurseries, Inc. ....	22	Texas Floral Co. ....	47
Corliss Bros. Inc., Nurseries .....	35	Lovett, Lester C. ....	31	United Bag Co. ....	46
Cottage Gardens .....	47	McFarland Publicity Service .....	25	Upton Gardens .....	44
Crystal Soap & Chemical Co. ....	49	McGill & Son, A. ....	43	Van der Voet Nursery .....	47
D. & C. Hardy Plant Nursery .....	35	Main & Sons, J. G. ....	40	Vaughan's Seed Store .....	18
de Wilde's Rhodo-Lake Nurseries .....	31	Maloney Bros. Nursery Co., Inc. ....	41	Verhalen Nursery Co. ....	47
Donewell Nurseries Co. ....	47	Mandel, Wm. ....	37	Verkade's Nurseries .....	47
Doty & Doerner, Inc. ....	43	Mathews Eggert Nursery .....	37	Vestal & Co. ....	47
Dow Chemical Co. ....	25	Meehan Co., Thos. B. ....	24	Washington Heights Nurseries .....	41
Dreer, Inc., Henry A. ....	44	Midwest Metal Specialties .....	36	Washington Nurseries .....	43
Dummett, Arthur .....	28	Milton Nursery Co. ....	43	Wassenberg, C. F. ....	47
Eden Nurseries .....	31	Mogul Co. ....	47	Waynesboro Nurseries, Inc. ....	47
Edwards Nurseries, Forrest G. ....	47	Monserud Nurseries, N. O. ....	38	Weathered Oak Herb Farm .....	35
Esham's Nurseries .....	34	Moran, E. C. ....	43	Westminster Nurseries .....	28
Evergreen Garden Nursery .....	39	Morse Co., A. B. ....	50	Wilbur-Ellis Co. ....	44
Evergreen Nursery Co. ....	37	Mount Arbor Nurseries .....	39	Williams Nursery Co., L. E. ....	29
Fairview Evergreen Nurseries .....	33	Munnett, Fred .....	47	Willis Nursery Co. ....	39
Felins .....	49	Musser Forests, Inc. ....	37	Winfield Nurseries .....	30
Ferndale Nursery .....	39	Naperville Nurseries .....	23-32	Wisconsin Moss Co. ....	50
Fiore Nurseries, Charles .....	30	National Wax Co. ....	27	Wonderland Nurseries .....	35
Forest Nursery Co. ....	16-17	Niagara Sprayer & Chemical Co. ....	45	Wright, C. D. ....	47
Foster Nursery Co. ....	41	Oberlin Peony Gardens .....	47	Zephyr Hill Nursery .....	37
Fowler, Thomas J. ....	47	Offenberg Nursery Co., Paul .....	22		
Fraser, Samuel .....	30	Orenco Nursery Co. ....	43		
Fuller Wheel Hoe Mfg. Co. ....	50				



# Nurserymen Exhibit at Spring Shows

The big flower and garden shows of this spring are different in two respects from those of preceding years. The gardens composed of mass plantings of flowering bulbs, particularly tulips and hyacinths, are absent, though such bulbs are represented in smaller plantings. Spectacular settings that depended on construction work or masses of water have given way to gardens that might well be found on the grounds of a better class home or a private estate.

These exhibitions are becoming more and more educational and of practical value to the gardening public, and less mere spectacles. The foreign settings are not lacking, for the New York show sought to carry out a Pan-American theme, and the Boston show had an Australian landscape as a feature. Defense gardens of vegetables have taken the place of bulbs, and at the New York show the martial element included a planting of an authentic British bomb shelter.

More nurserymen are exhibiting at these shows each season, and some of their conspicuous entries are described and pictured here.

## At Boston.

The New England spring flower show held in Mechanics building, Bos-

ton, Mass., March 17 to 22, proved to be one of the finest and most successful ever held there.

The stage setting, representing an Australian scene, in Grand hall was splendidly done. Big specimen acacias in a score of varieties were grown by George Holliday, superintendent to Mrs. Galen Stone, Marion, Mass. Specimens thirty-five to forty feet high of *Melaleuca Leucadendra*, better known to the trade as *metrosideros*, or bottle brush trees, had been brought by truck from Miami, Fla. A waterfall was a feature.

The Kelsey-Highlands Nursery, East Boxford, Mass., had an informal garden in which bog plants abounded. This received the gold medal of the Massachusetts Horticultural Society, as well as the gold medal of the Horticultural Society of New York.

Weston Nurseries, Inc., Weston, Mass., showed a well planted garden, in which were yews and other coniferous evergreens, with azaleas and carpeting plants. This was awarded a silver medal.

Bobbink & Atkins, Rutherford, N. J., had two rose gardens opposite each other, covering 3,500 square feet, and included were many varieties, both old and new. This was awarded a gold medal. Bobbink & Atkins also had two large groups of hardy azaleas in fine varieties.

In Exhibition hall was a beautiful rose and clematis garden from Albert A. Hulley, Middleboro, Mass. A high fence at the back of the garden was covered with large-flowered clematises, well bloomed. The two side borders of roses had superb foliage and high-quality flowers, while the lawn could hardly have been improved upon.

The ledge and waterfall garden from Alexander L. Heimlich, Woburn, Mass., splendidly conceived, scored a gold medal.

Ernest Borowski, Norwood, Mass., effectively staged a collection of new and rare hybrid rhododendrons and azaleas, many of them hybrids raised at Sandwich, Mass., by Charles O. Dexter.

The Bay State Nurseries, North Abington, Mass., featured a waterfall, and a rather modernistic mirror gave a sense of increased dimensions. There were four beds filled with well flowered Else Poulsen roses in the garden. This gained a silver medal.

Cherry Hill Nurseries, West Newbury, well merited their gold medal. Large pines of rustic habit and birches were at the rear of a pleasing planting of rhododendrons, kalmias and azaleas. A large pool of irregular formation gave added charm to the whole.

Borst & Fraser, Fayville, Mass., which firm made its initial exhibit last



Australian Hillside Scene Featuring Acacias Occupied Stage at New England Flower Show.



Garden of the Cherry Hill Nurseries at New England Flower Show.

year, entered another most unusual one this year and their simulation of fires and outdoor camping thrilled visitors. This gained a gold medal.

The Littlefield-Wyman Co., North Abington, had a small but interesting garden.

Lawrence C. Ellery, Keene, N. H., secured first prize for a 300-foot April border, in which primulas and especially *P. acaulis* were featured.

William N. Craig, Weymouth, Mass., received a gold medal for a table rock garden, in which were 125 varieties.

Garden in the Woods, Sudbury, Mass., was awarded a silver medal for an exceptionally interesting educational exhibit on the propagation of native plants.

#### At Philadelphia.

The eighteenth annual flower show at Philadelphia, held in the Commercial Museum March 24 to 29, showed progress in arrangement of gardens, the plant exhibits that heretofore were arranged in sections by themselves being used to break up the aisles and relieve the continuity of garden after garden.

Arbor-vitæ were used by the thousands for the division of exhibits straight down each aisle; these arbor-vitæ were eight feet high.

Bobbink & Atkins, Rutherford, N. J., with a wealth of excellent material, had three exhibits. Their blue-ribbon rose garden, perfect in every detail, was laid out with latticework in the corners, backed by flowering shrubs and trees, inter-

mingled with rambler roses in full bloom. An azalea garden contained specimen plants in brilliant color.

The Conard-Pyle Co., West Grove, Pa., laid out a miniature rose garden in a picture, using 150 Fairy roses in full bloom, and planted beds of star roses on both sides, using latticework in back and trailing roses effectively.

The De Kalb Nurseries, Norristown, Pa., made a formal garden, using a background of evergreens, dogwoods, azaleas and a retaining wall, while dwarf boxwood edged each bed of flowering plants in a lawn.

The woodland scene, of Vick's Wild Gardens, Glenmore, Pa., attracted attention, with its woods,

swamp and stream. Hundreds of wild plants, ferns and trees were placed in a natural setting.

A Chinese garden was exhibited by Effingham Pinto, Plainfield, N. J.

Walter van den Hengel, Overbrook, Pa., annexed a first prize on his rock garden, which was correct in every detail, from the background of birch trees and flowering shrubs to every rock in the right position, with waterfalls and a stream.

T. E. Steele & Son, Palmyra, N. J., were a blue-ribbon winner in the semiformal garden class, with flowering shrubs, tall cedars and azalea beds, while side beds held tulips and primulas.

Arthur Lee, Bridgeport, Pa., took first honors with his well arranged rock garden. C. S. Swayne, Springfield, Pa., had a display that was divided into two parts—a rock garden with suitable plants and a woodland scene with meadow and bog plants, shrubbery and trees being effectively used in both sections.

The Morris Arboretum, Chestnut Hill, showed evergreens in variety effectively arranged on a grassy terrace.

#### At St. Louis.

At St. Louis, Mo., the theme, All-American flower and garden show, was brought to the attention of the visitors by the elaborate decorations in patriotic colors of the spacious lobby of the Arena building, March 22 to 30.

While flowers and plants filled the main building, the east building,



Realistic Rock Garden Staged by Walter Hengel at Philadelphia Show.

which covers approximately two acres, was laid out as a garden, the various exhibits forming the component parts. The central mall was made up of two rectangular shadow pools and an octagonal pool with a fountain. The mall extended the entire width of the building. It was bordered on both sides by a row of red-flowering peach and an arborvitae hedge. This arrangement was executed by the St. Louis park department.

The mall was terminated by an azalea garden set up by the Missouri Botanical Garden. This garden, with an area of 2,400 square feet, was laid out in terraces, which were connected by massive brick steps.

A dry wall covering an area 135 feet in length was executed by William Brockmann, landscape gardener, in which a pleasing effect was attained with a red cedar and flowering shrub background, appropriate materials also being used in the dry wall planting.

A Washington garden covering 2,400 square feet staged by the Greater St. Louis Association of Gardeners was of formal design. The garden was entered by a pair of brick steps and had brick walks and brick edging. A pleasing effect was attained by a central bed of white azaleas flanked on either side with spring-flowering bulbs and hardy perennials. All brick walks were edged with a low boxwood hedge. The garden was terminated with a split rail paneling, backed up by a row of white-flowering peach trees. The border planting consisted of evergreens, lilacs, forsythias and honeysuckles. The garden was laid out with a forced perspective, the beds being tapered to the rear and thus giving the appearance of a deeper garden than actually existed. Dave Schlager was in charge of this exhibit.

Another 2,400-foot garden, "In Old Kentucky," by the Wilbur Nursery Co., Clayton, Mo., was laid out as a semiformal garden, with a central panel of turf bordered by a brick walk edged with boxwood. Liberal use of flowering material was made in the border planting. The predominating feature in the garden was an old stone well covered with vines.

A 2,400-foot garden by the A. Waldbart & Sons Nursery Co. con-



1. Washington Garden, Exhibit of St. Louis Association of Gardeners.
2. Eighteenth Century Garden, Staged by A. Waldbart & Sons Nursery Co.
3. Ozark Garden, by Greater St. Louis Landscape & Nurserymen's Assn.
4. "In Old Kentucky" Garden, by Wilbur Nursery Co., Clayton, Mo.





Garden Staged by Daybreak Nurseries at New York Show.

sisted of a central panel of turf bordered with bulbous and perennial blooming plants. The entire garden was surrounded by a brick serpentine wall three feet high.

In the 1,200-foot rock gardens by Stephan Beer and the University City Florists, native limestone ledge rock was cleverly employed.

The largest garden of the show was the Ozark garden by the Greater St. Louis Landscape and Nurserymen's Association. This garden covered approximately 8,000 square feet. The predominating feature in this garden was an authentic log cabin, which was brought in from the Ozark mountains and rebuilt, log for log. To the left of the cabin, a natural spring trickled from the rocky hillside into a pool extending the length of the garden. A split rail fence bordered a portion of the garden and lost itself among the evergreens and shrubs.

The Westover Nursery Co., Clayton, Mo., had a display covering 1,500 square feet in which evergreens were used to good advantage. The outstanding feature of this exhibit was a spring flowing from a rocky hillside into an irregular pool, which was planted with suitable flowering material.

The R. Kurtz Nursery, Clayton, Mo., displayed a recreational area in which an outdoor fireplace was featured, employing evergreens, flowering shrubs and bulbous plants.

The Houlihan Nursery Co., Creve

Coeur, Mo., had two gardens, one covering 1,200 square feet and the other 1,000 square feet, in which were used evergreens and flowering material. There was also a 1,000-foot exhibit by the McGovern Nursery, in which a pleasing effect was attained by the judicious use of evergreen material.

Joseph P. Houlihan was chairman of the garden exhibit entries, and Carl F. Giebel was superintendent of installation.

#### At New York.

At the New York show, in the Grand Central Palace, March 17 to 22, Bobbink & Atkins, Rutherford,

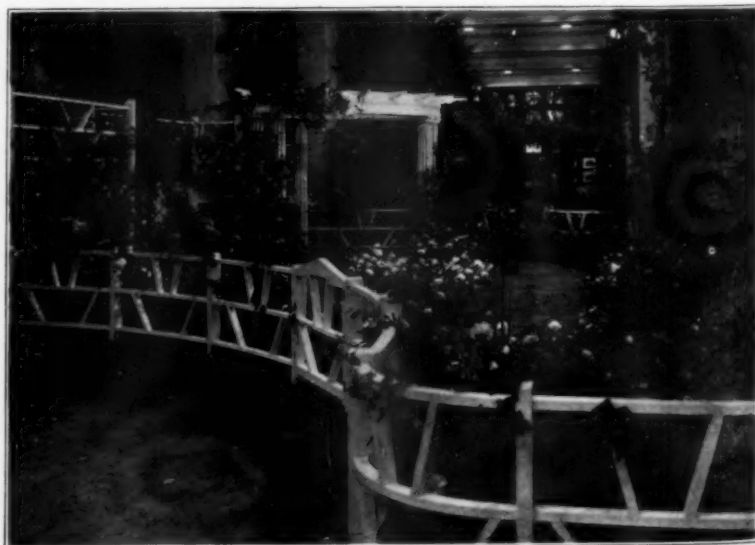
N. J., had three exhibits, besides a trade space. Their large rose garden on the main floor was notable for the variety of hybrid teas in the border and the central beds of polyanthas. In one corner was an arbor, while ramblers covered a trellis in the background. The firm also built a rose border, as well as one of rhododendrons and azaleas, finished off with yews and other green plants.

Turner Bros., Long Branch, N. J., showed a garden of dark red roses surrounding a water pool. The beds were edged with boxwood, and in the background were tall birches and evergreen material such as yews and kalmias. First prize, an S. A. F. trophy, went to this rose garden.

Frederic M. Leubuscher, Essex Fells, N. J., entered a large garden instead of his usual rock garden. An iron summerhouse behind a perfect lawn was framed by rhododendrons, astilbes and kalmias, inside of which were borders of dianthus.

The Daybreak Nurseries, Inc., Westport, Conn., had a garden consisting of a circular lawn surrounded by a salmon-colored brick wall with a sundial in the center. A small pool was placed at the top of three flower-banked steps, and a blue sky effect was apparent at the iron gates at the rear. The three entrances were planted with rhododendrons and kalmias in bloom, and two tall white birches were on either side of the gate. A special prize went to this firm on a planting of seasonal material.

[Continued on page 48.]



Rose Garden of Bobbink & Atkins at International Flower Show.



# Selecting the Best Perennials

By D. R. Metzger

"I want a garden that is in bloom from spring till fall, and I don't want to be nursing along a lot of weak-growing plants, either." Isn't that typical of the average customer's demands? He doesn't want a nursery; he wants a garden that is better than his neighbor's.

So, in making up our lists of plants to grow, we nurserymen should select varieties that are good bloomers (a mass of color), hardy and truly perennial and better or at least different than those our grandmothers had. Such plants would certainly have sales appeal to our buyers—the improved forms or new varieties of the old stand-bys, like long-spurred columbines, delphiniums with large flowers and spikes that won't blow over in the wind and chrysanthemums that are hardy and bloom before they freeze.

People want a change, but they want that change to be for the better. So, when a new or improved form of perennial comes on the market, the nurseryman that is really on his toes and wants to uphold the business standards should immediately replace his inferior types. He should be alert to selecting improvements in what he grows. Almost all of the new and improved forms are from careful selection, and every nurseryman should do his part to make gardening a more pleasant undertaking for the homeowners.

But, just as important, discard the old inferior types; don't clutter up your nursery rows with has-beens. How many automobiles would Ford sell if he still made the old T-model? We aren't giving our customers what they want when we offer them a T-model plant, are we? They want the 1941 models, the ones they are reading about in the magazines or maybe their neighbors have. And if we give our customers what they want, they are bound to come back.

We can't have these sales-appeal plants by gathering our seeds from what used to be a good strain, seeds collected from the last few plants in a patch that had been picked over. That's the way we run down strains, produce T-model plants. Last spring we ran short of columbines and

*Public demand for a change in gardens, as in other home adornment, requires search for improved varieties in herbaceous perennials, of which these recommendations were offered at the recent short course at Painesville, by the head of the Terrace Gardens Co., Youngstown, O.*

bought in a hundred or so. When these plants came into bloom the flowers were small and the colors were that tawny brown and dirty pink—just what you would expect the last few plants of a picked-over patch to be. We quit selling them immediately. They were T-model plants, surely not sales-appeal plants. We want our customers to come back.

If you wish to save seeds from an especially fine or expensive strain, why not pick the best plants from a new patch, set them out in a good piece of ground in a corner of the nursery—away from snoopers? And the same way with all our plants we want for propagation—select the best, plant them in the best piece of soil you have and label them "for propagation only." Then maybe we'll have sales-appeal plants. Otherwise we ought to buy our seeds and new stock, and trust that the seedsman did just that.

Improve your stocks by careful selection. But do not name or attempt to establish as a new plant every little variation in color or form. This practice has flooded the market with hundreds of irises, phloxes, poppies, chrysanthemums and others that are more or less duplications. This novelty craze may be profitable for sales between nurserymen, but sooner or later it will meet its doom. The homeowner is not exactly interested in novelties; he is interested primarily in results, better flowers with less care. And sooner or later some of the nurserymen are going to be buying back their own originations under a different name. I am hopeful of seeing Dr. Chadwick make a list of "perennials to discard." I'll bet it would flatten out some of these long lists of peonies, irises and phloxes. A thick catalogue may flatter our vanity, but

it often confuses our buyers, even the nurserymen themselves. Sometimes I think that there should be several experiment stations over the country that would try out every new variety for a couple of years, and then if it really is an improvement or really is a new color that is needed, it could be named and marketed.

In our search for better perennials the nurseryman also has that vast, limitless source of plants from other regions. We pick up a catalogue from the Pacific coast or England or Japan and see just what we are looking for, plants not any of our competitors have. But what a headache we have trying to make some of these grow in our climatic conditions! However, we do get some to thrive and we have to keep trying them out. During the rock garden craze hundreds of little, insignificant weeds were introduced. Catalogues may have given them sales appeal, but how many had backbone enough to give our customers what they want? I suppose a good many nurserymen are lured by a challenge to grow such difficult plants as hardy cyclamens, dryas, meconopsis and lewisias in their frugal efforts to make their hobby their business. Can you think of anything more heartless than passing plants along to the homeowner that are so difficult under the finger tips of the experienced? Of course, we have the hobbyist to reckon with, but we should explain this in our description.

In making a selection of some of the better perennials I might limit this to "better perennials under local conditions," because climatic and soil conditions vary so. And what may be useful in the rock garden has no place in the border. Here are brief notes on recommended varieties:

*Anchusa* — Feltham Pride, larger flowers, more continuous bloomer and not so tall as italica Dropmore; Morning Glory, new, much like the above; *myosotidiflora*, good shade plant.

*Anemone japonica* — Marie Manchard, Queen Charlotte, September Charm, *hupehensis* *superba*.

*Anthemis* — Moonlight, large pale yellow flowers; discard *tinctoria*.

*Aquilegia* — Dobbie's and Scott El-

liott's hybrids; longissima, spurs on pale yellow flowers; Crimson Star, cærulea, clematiflora.

Armeria—Bees' Ruby, fine for cutting.

Aster—Frikarti, Wonder of Stafa, not so hardy; Star of Wartburg; Victor, Niobe, Constance, Ronald, Lilac Time, dwarf fall-blooming, all good bloomers; Beechwood Challenger, brilliant magenta-red; Mammoth, largest semidouble lavender; Strawberries and Cream; Harrington's Pink; Mount Rainier, white; Red Cloud.

Campanula — Telham Beauty, Moerheimi, garganica, turbinata, muralis.

Chrysanthemum — Esther Reed, continuous bloomer, double; Silver Star, Nobilis, Snowbank, large flowers; Alaska; Korean improved forms; cushion mums; Lavender Lady, Golden Charm, Pierre S. du Pont, Eugene A. Wander, good large-flowering types; Red Flare.

Coreopsis—Double Sunburst.

Delphinium — Cliveden Beauty, taller, heavier and brighter than Belladonna; Liondell strain; Pacific hybrids.

Dianthus plumarius hybrids, named varieties best, peat harmful to them.

Dicentra spectabilis.

Dictamnus Fraxinella, permanent; Fraxinella albus, more showy.

Digitalis—Shirley hybrids.

Doronicum — Caucasianum, earliest; Pardalianches, not so good.

Gaillardia—Sun God and Mr. Sherbrook, yellow; Barnes Ruby, ruby-red; Goblin, dwarf compact variety; Portola hybrids.

Geum—Borisii, hardy; coccineum, Fire Opal, Dolly North.

Gypsophila—Repens Bodgeri, light pink; Bristol Fairy, the best.

Helenium — Peregrina, dark mahogany, July and August, three feet; Chippersfield Orange, copper and gold, August and September, four feet.

Helianthus — Coronation, double golden-yellow, 4-inch flowers.

Heliopsis — Summer Gold, good bloomer, three feet; scabra incomparabilis, nearly double, three feet.

Hemerocallis—Hyperion, Bay State, George Yeld, Apricot, good; Dr. Regel, Thunbergii, still good. Too many varieties for the color range.

Heuchera—Queen of Hearts, Pink Delight.

Iris germanica and Kämpferi.

Liatris scariosa—September Glory and White Spire.

Lupine—Russell hybrids.

Papaver — Snowflake, orange and white; Salmon Glow, double, 6-inch flowers, like Olympia; Perry's White, Mrs. Perry, Lulu A. Neeley, Wurtembergia and others.

Pentstemon—Garnet, rich garnet-red, 12-inch to 18-inch, large flowers.

Peonies — Le Cygne, Longfellow, Therese, Walter Faxton, Sarah Bernhardt and Solange; single varieties like Mikado and Jacqueline; officinalis rubra.

Phlox—Emain Macha and Africa, red; George Stipp, Daily Sketch, salmon; Jules Sandeau and Lillian, pink; Lavender Beauty, Blue Boy, Silverton, all about alike; Mary Louise and Von Lassburg, good whites; subulata Blue Hill, Crimson Beauty and Vivid; Camlensis, cross between rosea and amœna ovata.

Pyrethrum — Brilliant, Buckeye, Miami Queen.

Rudbeckia purpurea — The King; Newmani, still good.

Scabiosa—Isaac House's strain.

Spiræa (astilbe) — Granat, Fanal, Gertrude Brix.

Stokesia — Lilacinea grandiflora, Blue Moon, 5-inch to 6-inch flowers.

Trollius—Ledebouri, europæus.

Veronica — Blue Spire, longifolia subsessilis, True Blue.

## OBITUARY.

### Archibald McGill.

Archibald McGill, pioneer Oregon nurseryman, died March 23 at his home, at Portland, and funeral services were held March 26, at the Colonial chapel of Holman & Lutz. He had been suffering from angina pectoris for some time.

One of the few active nurserymen



Archibald McGill.

who could look back to the old days of "packing out" of Geneva, N. Y., A. McGill was well known and admired literally over the entire country for his kindly personality, for his ability as a grower and a salesman and for his high business standards. As a host at the Portland A. A. N. convention in 1939, he is remembered by all the visitors there for his hospitality.

Mr. McGill was born at St. Thomas, Ontario, January 17, 1865, the son of Peter and Isabel McGill. He entered the nursery business at the age of 16. In 1889 he went west, first settling at Auburn, Wash. He moved in 1891 to Salem, Ore., where he and M. McDonald founded the Oregon Nursery Co., later moved to Orenco. He sold his interests in that company in 1912 and entered the logging business. In 1925 he and his son, Wayne, formed the wholesale firm of A. McGill & Son, first operating at Toppenish, Wash., but moving to Fairview, Ore., in 1928. Since that time his business repeatedly took him to every state in the Union, where he made a host of friends. He continued active in the business until a few days before his death, attending several state conventions in the mid-west in January and returning from a two weeks' selling trip in California March 5.

In 1893 Mr. McGill married Blanche Irish, who died in 1919. He later married Angeline McCulloch, who survives him. He also leaves a son, Wayne E. McGill; a daughter, Mrs. John D. Young, and three grandchildren.

### William De Bree.

William De Bree, 59, owner of the Plainfield Nursery, Scotch Plains, N. J., died March 24 of a heart attack while seeking small trees in pine woods at Old Bridge, N. J. His two sons, Victor and Francis, searching the area when he failed to return, found him in his car. Surviving, besides his sons, are his widow, a sister and a brother in Michigan.

B. J.

### William L. Hysinger.

William L. Hysinger, Cleveland, Tenn., died March 10 at his home, near Prospect, at the age of 72. Surviving are his widow, Mrs. Mary Hysinger; two sons, Sam, who operates the Hysinger Nurseries, and Lester, and three daughters.

# Selection of Broad-leaved Evergreens

By L. C. Chadwick

A consideration of the dwarf, shrubby types of broad-leaved evergreens, one to three feet in height, brings to mind some of the factors confronted in the selection of the best types of this group of plants, as emphasized in the first of this series of articles, in the January 1 issue. Some of these points are worth reiterating again at this time. Because of the slow growth of many of the broad-leaved evergreens, they seldom reach the mature size suggested in botanical manuals in the ordinary landscape plantings. For example, *Buxus sempervirens* is listed as reaching twenty to thirty feet, *Kalmia latifolia*, from thirty to forty feet and *Pieris floribunda*, six to seven feet at maturity. These ultimate sizes may be attained in their natural habitat, but seldom are reached in landscape plantings. Consequently, in grouping these plants, they have been placed, so far as possible, from my observations, in the group corresponding to the size they commonly attain in this section of the country. For some types which are rarely grown, the average size is estimated. Other types may not be fully hardy, and the killing back of the tips of the branches nearly every year produces a dwarfier plant than where the type is perfectly hardy. For example, *Lonicera nitida* is listed as being a plant reaching an ultimate height of six or seven feet. In our region it seldom is over four feet and more often from two to three feet high.

Soil requirements and hardiness are more noticeably influencing factors of growth in the shrubby types. Particular soil requirements will be given, and the hardiness zones as indicated by Rehder will be given. To make the lists more comprehensive, some of the broad-leaved evergreens which, I have been informed, are especially useful in Virginia, Tennessee and Alabama, have been added to the secondary list and indicated with the letter (S) following the plant name. No doubt many of these and probably some others on the secondary list would find a place on the selected list in that region. It seems best, however, from the standpoint of this discussion, to place them all on the secondary list

Third in a series of articles similar to the treatment of narrow-leaved evergreens and of woody deciduous ornamental plants in "Compiling a New Nursery List" by associate professor of horticulture at Ohio State University.

with an indication that they are southern types.

As mentioned previously, these lists do not intend to be all-inclusive. Some of the native broad-leaved evergreens which are little used, such as *Andromeda glaucophylla* and *Ledum groenlandicum*, have been and will be omitted. Occasionally, when a variety of some of the species in this category seems worthy, it will be mentioned. No attempt has been made to include all the species, varieties and forms of such genera as *rhododendron*, *buxus*, *berberis* and others. In some cases, as with the *rhododendrons*, they may be listed simply as *Kurume azaleas*. Adaptable varieties and forms vary in different regions; only a few which seem to be more or less common in the trade will be listed.

The dwarf types of broad-leaved evergreens are especially useful in landscape compositions. They are especially adaptable to use in foundation plantings, for facing larger plants in borders and for bed plantings, and among them are types especially useful for low hedges and as rock garden subjects. Considerable variation in growth habit exists, but many of them are formal, rounded and compact. Excellent flower, fruiting and foliage types are present.

Sixty-six types are listed, considering the hybrid *Indica* and *Kurume azaleas* as single types. About twenty per cent are in the selected list and should find the most abundant use; about sixty per cent are in the secondary list, which will find a more limited use, and about twenty per cent are suggested as discards.

## SELECTED LIST

*Berberis buxifolia* pygmaea—Dwarf Magellan barberry.  
*Berberis verruculosa*—Warty barberry.  
*Buxus sempervirens* myrtifolia—Myrtle leaf box.

*Buxus sempervirens* suffruticosa—True dwarf box.  
*Daphne cneorum*—Rose daphne.  
*Euonymus fortunei* (radicans) carrierei—Glossy wintercreeper.  
*Euonymus fortunei* (radicans) vegeta—Bigleaf wintercreeper.  
*Ilex crenata* convexa.  
*Kalmia latifolia* myrtifolia—Myrtleleaf kalmia.  
*Pieris floribunda*—Mountain andromeda.  
*Rhododendron indicum* (hybrids)—Hybrid *Indica* azalea.  
*Rhododendron obtusum* amœnum coccinea.  
*Rhododendron obtusum japonicum*—Kurume azalea.

## SECONDARY LIST

*Berberis buxifolia* nana.  
*Berberis candidula*.  
*Buxus microphylla* compacta.  
*Buxus sempervirens* rosmarinifolia.  
*Chamaedaphne calyculata*.  
*Cotoneaster congesta* (pyrenaica).  
*Cotoneaster conspicua* decora.  
*Cotoneaster microphylla*.  
*Cotoneaster microphylla* cochleata.  
*Cotoneaster microphylla* thymifolia.  
*Daphne cneorum* alba.  
*Danaë racemosa* (S).  
*Euonymus fortunei* altissima.  
*Euonymus japonica* microphylla (S).  
*Ilex crenata* helleri.  
*Ilex crenata* (Kingsville type).  
*Ilex rugosa*.  
*Kalmia angustifolia* candida.  
*Kalmia angustifolia* pumila.  
*Kalmia angustifolia* rubra.  
*Ledum groenlandicum* compactum.  
*Leiophyllum buxifolium*.  
*Leiophyllum buxifolium* hugeri.  
*Leiophyllum buxifolium* prostratum.  
*Leucothoe davisiae*.  
*Leucothoe keiskei*.  
*Lonicera nitida*.  
*Lonicera pileata*.  
*Mahonia nervosa*.  
*Pachistima myrsinites*.  
*Rhododendron arbutifolium*.  
*Rhododendron caucasicum*.  
*Rhododendron ferrugineum*.  
*Rhododendron ferrugineum* album.  
*Rhododendron ferrugineum* atrococcineum.  
*Rhododendron hirsutum*.  
*Rhododendron hirsutum* albiflorum.  
*Rhododendron myrtifolium*.  
*Rhododendron obtusum* amœnum.  
*Yucca filamentosa*.  
*Yucca glauca*.

## PLANTS TO DISCARD

*Berberis empetrifolia*.  
*Buxus microphylla*.  
*Buxus microphylla* koreana.  
*Kalmia angustifolia*.  
*Kalmia angustifolia* ovata.  
*Kalmia polifolia*.  
*Kalmia polifolia* rosmarinifolia.  
*Lonicera pileata* yunnanensis.  
*Yucca filamentosa* concava.  
*Yucca filamentosa* variegata.  
*Yucca flaccida*.  
*Yucca flaccida* major.

*Berberis buxifolia* pygmaea, dwarf Magellan barberry.—A number of satisfactory dwarf evergreen barber-



ries are found in this group, and most of them have proved satisfactory as far north as Cleveland, O. Occasionally some branch injury occurs, but this has not been extensive except in abnormally cold years. *Berberis buxifolia*, the Magellan barberry, is outside the limits of this size group, but two varieties belong in this classification. They are listed as being hardy in zone 6.

*Berberis buxifolia pygmaea*, the dwarf Magellan barberry, is one of the hardiest of the evergreen species. It is a dwarf, tufted form, usually not over twelve to eighteen inches high, with spineless branches and possessing a rounded form. As is true with most of the evergreen barberries, it prefers sunny or partly shaded situations and a soil of circumneutral reaction. It is a fine plant for beds and foundation plantings, rock gardens and low hedges.

*Berberis buxifolia nana* is a dwarf, compact form growing up to about three feet in height. It is nearly as showy and useful as *Berberis buxifolia pygmaea*. The leaves are relatively thin and the branches are at least slightly spiny.

*Berberis verruculosa*, the warty barberry, a native of west China, is a low, dense shrub of from two to four feet in height, with small shining leaves that are dark green above, white beneath and with rolled margins. The leaves are spiny and resemble somewhat those of holly. The foliage turns a bronze color in the fall. Small yellow, slightly fragrant flowers appear in May, followed by violet-black fruits. The twigs are spiny and warty. *Berberis verruculosa* prefers a good, well drained soil and a sunny or partly shady situation. It is listed as being hardy in zone 5. It makes a fine foundation and rock garden plant and a splendid low hedge, needing little or no clipping. It is said not to stand the hot climate of some of the southern states well.

A related type to *Berberis verruculosa* is *Berberis candidula*. This species, resembling the warty barberry in habit of growth and in foliage, has not been tried sufficiently in our locality to determine its actual worth. It seems a little more vigorous and somewhat looser in its habit of growth than *Berberis verruculosa*. It is listed as being hardy in zone 5 and looks promising at the present. It is placed tentatively on the secondary list.

Still another broad-leaved ever-

green barberry within this group is *Berberis empetrifolia*. Plants attain a height of from twelve to eighteen inches, have slender, spiny branches and have a looser habit of growth than those previously mentioned. It likewise is not so hardy.

*Buxus sempervirens myrtifolia*, myrtleleaf box.—The identification of the plants grown under this name in some nurseries in Ohio has not been definitely assured. The plants form a low shrub, having narrow oblong to oval leaves a little more than one-half inch long. Its dark green foliage is much more attractive than that of *Buxus microphylla koreana*, which it resembles somewhat. This variety has



James N. Lyon.

proved hardy in zone 5, if used in partial shade, and has proved to be reliable in northeastern Ohio.

*Buxus sempervirens suffruticosa*, the true dwarf or edging box, has been a standard for low hedges in southern gardens for many years. While it does not grow beyond three or four feet for many years, plants of six feet and even ten feet are reported. The oval or slightly obovate leaves are about one-half to three-fourths of an inch in length, and the fragrance of the boxwood foliage is most pronounced in this dwarf variety. While it does not appear so hardy as *Buxus sempervirens myrtifolia*, it seems reasonably satisfactory from central Ohio south, which may be interpreted as the southern half of zone 5. It should be given partial shade and possibly some protection in this region. This variety finds its use as a dwarf hedge, for edging walks and flower beds and as a dwarf, formal specimen. Globe and conical forms are available and worthy of use.

Two varieties of boxwood are placed on the secondary list. *Buxus microphylla compacta* is the recent introduction of Henry Hohman, Kingsville, Md., and is known as the Kingsville dwarf box. It is described as being a compact, depressed-globose plant, broader than high, with elliptic to obovate leaves of one-fourth to one-half inch long. It is of exceedingly slow growth, the original plants being less than a foot high in twenty-five years. It has stood temperatures of 20 degrees below zero at Stroudsburg, Pa., without protection or injury. If it is not so slow-growing that it proves to be uneconomical to handle, it should be the best dwarf box for northern climates.

*Buxus sempervirens rosmarinifolia*, not common in the trade, warrants further trial.

Two types are placed on the discard list. These are *Buxus microphylla*, a compact shrub up to three feet in height, not often seen in cultivation, and *Buxus microphylla koreana*. The latter type has frequently been recommended for northern climates because it, with the species and variety *japonica*, a somewhat larger type, is said to be the hardiest of the boxes. This characteristic of hardiness is one of its few good points. It attains a height of one and one-half to two feet or a little more and possesses a looser, more spreading habit and a lighter, yellowish-green foliage than the common box. Although it is described as being hardy in zone 4,

[Continued on page 36.]

#### TENNESSEE PRESIDENT.

Called upon to preside at the annual meeting of the Tennessee State Nurserymen's Association this year in the absence of the president, James N. Lyon, completing his first year as vice-president, acquitted himself so capably, both in presenting an official address on short notice and in conducting the sessions, that the nominating committee promptly presented his name as president for the ensuing year and, despite his modest plea of youth and inexperience, he was unanimously elected.

After being educated at the University of Michigan, he started in business with the Forest Nursery Co., in July, 1935, and has served as secretary of the company for three years. The Forest Nursery Co. operates approximately 300 acres at McMinnville, Tenn.



# Scenic Views on Convention Cruise

One of the main topics of conversation among nurserymen these days is the 4-day cruise on the luxury lake-liner, S. S. Secandbee, which they and their families will be taking July 7 to 11. W. J. Smart, transportation chairman, who is making the reservations for nurserymen, whether A. A. N. members or not, said that he believes this trip will end up by being one of the biggest and best business-pleasure combinations ever. The 4-day cruise is open to nurserymen and their families only; so everyone is sure to have a grand time, and there's no such thing as "dressing for dinner."

If you are planning on driving the family to the dock at the end of Navy Pier, Chicago, you needn't worry about what is going to happen to the car, because it will be stored for you at 50 cents per day and brought to the dock on your return. Accommodations for those arriving in Chicago from out of town early will be ready at the Hotel LaSalle, where the A. A. N. executive committee will be in session for several days prior to the convention. Arthur Palmgren is chairman of the committee on local arrangements, assisted by Bill Smart.

Business sessions on board the Sec-

*The proposal to invite all nurserymen to enjoy the convention cruise next July, whether members of the A. A. N. or not, has induced so much interest, especially since an outline of the program was published in the preceding issue, that those who want to enjoy an economical vacation, rub shoulders with the leading nurserymen of the country and see how the wheels go around in A. A. N. convention sessions, should send their reservation without delay to W. J. Smart, Dundee, Ill., transportation chairman.*

andbee will be as concise as possible, promises President Avery H. Steinmetz. The board of governors will organize the business to be discussed, and the first meeting will be held Monday afternoon, July 7. Another is planned for Tuesday morning and in the afternoon the Landscape Nurserymen's Association will have its program, a high light of the convention. The third business session will come on Wednesday afternoon and a final one on Friday morning.

The pleasure side of the business-pleasure cruise will be plentiful. Bill

Wilson, cruise director, and Margery Bagby, hostess, will supervise the numerous deck games which will take place on the wide, sunny decks of the boat. The ship carries a full orchestra and a corps of entertainers and is able to boast of the only real ballroom on the Great lakes. There are five drinking salons, including the quaint little "Pub" away down on the lower deck. The spacious dining room compares favorably with those of the better hotels, and the excellent cuisine is served to suit the most discriminating tastes.

Monday will find the cruisers feasting their eyes on the famous Michigan sand dunes, the majestic "Sleeping Bear" of legendary fame and Beaver island, the first location occupied by the Mormons. Passing Greys Reef light, the ship enters the Straits of Mackinac, which are the largest and deepest in the world and where the waters of Lake Michigan and Lake Huron meet. We shall see the primeval glens, ravines and caverns, long-winding paths revealing unsuspected marvels of nature. For the imaginative sight-seer, romantic history comes to life.

St. Mary's river is an amazing complex of wilderness and civilization,

## YOU ARE INVITED ON CONVENTION CRUISE!

Since last July we have been hearing about the convention cruise on the Great Lakes next summer, but now after reading the intensely interesting story of it in the March 15 issue of American Nurseryman we are beginning to realize that the whole thing is a reality.

The arrangements committee, headed by Arthur Palmgren, is seriously at work taking care of the many details that are so important in making such a trip a success.

Bill Smart, Dundee, Ill., transportation chairman, is busy making reservations, and this in itself is proving to be a tremendous job.

We can all appreciate now that from the standpoint of interest, comfort, complete change of scenery and activity, as well as the opportunity of holding worth-while business sessions, the cruise meets every demand.

Midwinter meetings of the various state and regional associations have been so well attended and such interest has been shown on the part of the members that we have every reason to believe that our convention next July will be one of the most important and at the same time one of the most pleasant in the history of the association.

I would, therefore, urgently request all members of the association to make reservations with transportation chairman, Bill Smart, immediately, and at the same time I am happy to extend to nonmembers in the nursery trade a cordial invitation to make reservations and enjoy the convention cruise with us.

**DECIDE NOW YOU'RE GOING AND BRING THE WHOLE FAMILY WITH YOU!**

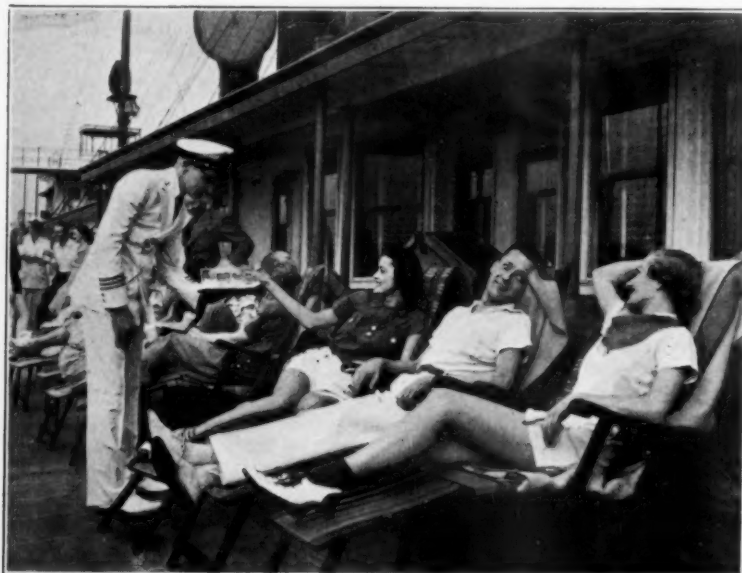
Avery H. Steinmetz, President, A. A. N.



of modern freighters moving upstream and downstream in a steady flow. St. Mary's falls, three-fourths of a mile long and one-half mile wide, are the start of a bateau canal and locks which were built in 1797 on the Canadian side of the river. The lock was destroyed in 1812 and rebuilt again in 1855 by the state of Michigan. These locks are now known as the Soo locks, which han-

through the streets. For those interested in horseback riding, there's a stable which supplies not only the horses, but a riding habit in case you've forgotten yours. If you don't care to ride, there are horse-drawn vehicles or bicycles. A short distance from the dock is old Fort Mackinac, with its massive, limestone ramparts as sturdy as ever, and many other interesting old structures

the accumulated information will make it possible to plan the planting of trees on the avenues of our cities and towns for their easier maintenance and better appearance than is sometimes the case now. While a large number of completed charts have been received from collaborators, more are desired in order to make the survey as comprehensive as possible. Those interested may obtain further information by writing to Edward H. Scanlon, Box 886, Santa Monica, Cal.



Picture Yourself in Their Places on the Seeandbee Next July.

dle more freight than any other locks in the world. The vital importance of the Soo is evidenced by the strong military guard placed around it since 1940. Just as a matter of interesting statistics, the fleet of 560 American and 220 Canadian commercial vessels in 1940 carried about 150,000,000 tons of iron ore, wheat, coal, coke, lumber, sand, stone, cement, petroleum, dairy products, miscellaneous metals and manufactured products, including automobiles, at an estimated saving to shippers, over rail rates, of about a quarter of a billion dollars! Nurserymen will be able to get a good look at these gigantic locks Wednesday afternoon.

And here's a little tip for Thursday—there's no business meeting; so all of you will be able to take full advantage of really enjoying Mackinac island, to acquaint yourself with the quiet charm which prevails everywhere—no honking horns here to disturb the peaceful scene; only bicycles, horses and horse-drawn vehicles weaving their leisurely way

and relics. The original Astor House, a large white building of hand-hewn timbers and locally fused glass, has been developed into a museum.

The price for the 4-day cruise is remarkably low—\$44 for inside room or \$48 for outside, per person, includes transportation, all meals, state-room accommodations, entertainment and game prizes. Reservations for the trip now are open only to nurserymen and their families, whether A. A. N. members or not. If space is still available later, invited friends may be accommodated.

#### STREET TREE SURVEY.

A national street tree survey has been undertaken during the past few months by Edward H. Scanlon, editor of *Trees*, with the assistance of volunteer committees covering the various sections of the country. The purpose is to gain data on present practices and on trees used, or suitable for, street planting. The expectation is that

#### BRYANT GOLDEN WEDDING.

The golden wedding anniversary of Mr. and Mrs. Guy A. Bryant, Princeton, Ill., February 26, received lengthy notice in the local newspaper because of the prominence of the family in activities there, though the event was observed quietly because Mr. Bryant has just recently shown improvement from an illness dating from last November.

Guy A. Bryant has long been well known elsewhere as the head of Bryant's Nurseries, founded by his father and conducted under the firm name of Arthur Bryant & Son. He was one of the founders of the Illinois State Nurserymen's Association and its first permanent president, serving two years. He was also one of the founders of the American Peony Society and its first vice-president. He served for six years on the city council and was mayor of Princeton in 1907 and 1908.

Associated with him in the management of the business for some years has been his son, Miles W. Bryant, who served two terms both as president of the American Association of Nurserymen and of the Illinois State Nurserymen's Association, of which he has been secretary for the past ten years.

Mr. and Mrs. Bryant both graduated from Princeton high school in 1886. They were married February 26, 1891, and established their residence at 1325 South Main street, where they have spent the entire fifty years with the exception of one year in another location while their new home was being erected.

Children of the couple besides Miles W. Bryant are Dr. Louis R. Bryant, of the department of horticulture at Colorado A. & M. College, Fort Collins, Colo.; Mrs. Edgar S. Perkins, Princeton, and Robert B. Bryant, who also assists his father at the nursery.

# Join the NURSERYMEN'S 1941 Convention Cruise A Boatload of Good-fellowship, Fun, Food and Frolic on to **MACKINAC ISLAND**

## Aboard the World's Largest Cruising Liner **SEEANDBEE**

**HAVE THE TIME OF YOUR LIFE FOR 4 GLORIOUS DAYS AND HAPPY NIGHTS**

You and your wife will want to be on board when the magnificent S. S. SEEANDBEE sails from Chicago, July 7, and points her gleaming prow toward the famous "SOO" (Saulte Ste. Marie, Michigan) and Mackinac Island, and a never-to-be-forgotten cruise on the smooth blue waters of the largest chain of Lakes in the World.

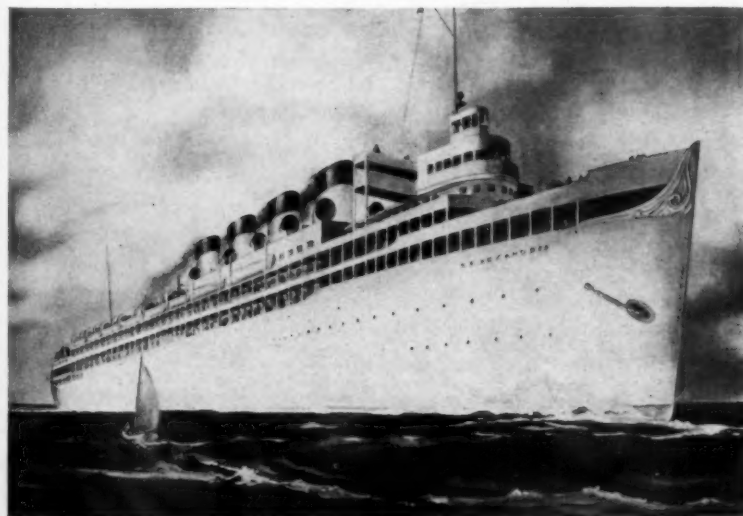
Engaged under special charter for the 66th Annual Convention . . . only nurserymen and their friends will be aboard the luxury liner SEEANDBEE enjoying smooth sailing, as your big ship is nearly two city blocks long and 100 feet wide . . . 4th widest ship in the world.

You'll enjoy spacious, beautifully appointed accommodations . . . spend happy hours in the salons and dining rooms of the S. S. SEEANDBEE, that provide such perfect settings for the gala events of this Convention-

Vacation cruise. Or . . . you may "go athletic" on wide sun-splashed decks and enjoy the thrill of competitive sports or the quiet of a restful deck chair.

Then . . . after each day's new round of pleasure and business sessions, you will dine festively in the Salon . . . with impeccably served foods for which only celebrated SEEANDBEE chefs know the secret recipes! And then an evening in your "night club" aboard ship, dancing and entertainment to climax each fun-packed day before slumber beckons you to a refreshing night's sleep. **DECIDE NOW YOU'RE GOING AND BRING THE WHOLE FAMILY WITH YOU.** Take your choice of these LOW rates: \$44.00 includes berth in inside room . . . \$48.00 includes berth in outside room. All rooms accommodate 2 or 3 persons. The rate includes every necessary expense, including food, transportation and entertainment.

**Your Big LUXURY Liner "SEEANDBEE" — Send this Coupon to "Bill" Smart TODAY**



Mr. W. J. Smart,  
c/o D. Hill Nursery Company  
Dundee, Illinois

Dear "Bill"—

COUNT ME IN ON THIS CRUISE.  
Make the following reservations for me.  
Please check price of accommodations you prefer:

- ☐ BERTH INSIDE ROOM AT \$44.00  
PER PERSON
- ☐ BERTH IN OUTSIDE ROOM AT  
\$48.00 PER PERSON

NAME .....

ADDRESS .....

CITY ..... STATE .....

Remarks .....

Enclosed you will find \$10.00 per person  
as deposit to hold my accommodations.



# STOCK FOR IMMEDIATE SHIPMENT

We offer for immediate delivery the following first-class nursery-grown stock, guaranteed to be in good condition with no winter injury. Stock now in storage or heeled in yard ready for immediate shipment. Terms and conditions same as are printed in our regular Spring Wholesale Trade List which was mailed in early March.

5% discount and free packing for cash with orders. Wire your orders for \$100.00 or more by Western Union collect.

Send want list and ask for special quotations on larger quantities. Write for a copy of our Spring Trade List.

## HARDY DECIDUOUS FLOWERING SHRUBS

s.—Seedlings; c.—Rooted Cuttings; tr.—Transplanted; br.—Branched; l.o.—Lining-out; div.—Divisions.

	Per 100	Per 1000		Per 100	Per 1000		Per 100	Per 1000
<b>ALMOND. PRUNUS GLANDULOSA.</b> Dbl. Pink-flowering, own root.			<b>HYDRANGEA PANICULATA GRAN-DIFLORA.</b> Peegee Hydrangea.			<b>SPIRÆA ARGUTA.</b> Garland Spiræa.		
18 to 24 ins., tr., well br. ....	\$17.50		True type.			6 to 12 ins., c. ....	\$3.00	\$25.00
2 to 3 ft., tr., well br. ....	22.50		18 to 24 ins., tr. ....	\$15.00		12 to 18 ins., c. ....	3.50	30.00
			2 to 3 ft., tr. ....	25.00		18 to 24 ins., hedging ....	5.50	50.00
<b>ALTHÆA. HIBISCUS SYRIACUS.</b> Shrub Althea.			<b>LIGUSTRUM AMURENSE.</b> Amoor			12 to 18 ins., 2-yr., tr. ....	6.00	55.00
Variety:			North Privet.			18 to 24 ins., 2-yr., tr. ....	8.00	70.00
Rosea, single flowers.			6 to 15 ins., l.o. ....	\$0.70	\$6.00	<b>SPIRÆA PRUNIFOLIA.</b> Bridal Wreath.		
6 to 12 ins., s. ....	\$0.40	\$3.00	6 to 12 ins., 2 br. up ....	.80	7.00	18 to 24 ins., tr. ....	\$12.00	
12 to 18 ins., s. ....	.50	4.00	<b>LIGUSTRUM OBTUSIFOLIUM.</b> Ibota			2 to 3 ft., tr. ....	15.00	
<b>AMORPHA FRUTICOSA.</b> False Indigo.			Privet.			<b>SPIRÆA VANHOUTTEI.</b>		
<b>AMORPHA TENNESSEENSIS.</b> Tennessee Indigo.			12 to 18 ins., s. ....	\$1.00	\$ 8.00	6 to 12 ins., c. ....	\$1.25	\$10.00
18 to 24 ins., s. ....	\$1.25	\$10.00	18 to 24 ins., s. ....	1.25	10.00	12 to 18 ins., c. ....	1.50	12.00
2 to 3 ft., s. ....	2.00	15.00	12 to 18 ins., 2 br. ....	1.00	9.00	18 to 24 ins., c. ....	2.00	15.00
<b>BERBERIS THUNBERGII.</b> Japanese Barberry.			12 to 18 ins., 3 br. up ....	1.50	12.00	12 to 18 ins., hedging ....	2.50	20.00
9 to 12 ins., s. ....	\$1.25	\$10.00	18 to 24 ins., 3 br. up ....	2.00	15.00	18 to 24 ins., hedging ....	3.00	25.00
12 to 15 ins., s. ....	2.00	15.00	2 to 3 ft., 3 br. up ....	3.00	25.00	2 to 3 ft., hedging ....	4.00	35.00
15 to 18 ins., s. ....	3.00	25.00	3 to 4 ft., 4 br. up ....	4.00	35.00	18 to 24 ins., well br. ....	5.00	40.00
15 to 18 ins., tr. ....	8.00	70.00	<b>LIGUSTRUM OVALIFOLIUM.</b> California Privet.			<b>SYMPHORICARPOS VULGARIS.</b> Coralberry.		
18 to 24 ins., tr. ....	10.00	90.00	6 to 15 ins., l.o. ....	\$0.70	\$ 6.00	12 to 18 ins., c. ....	\$0.80	\$ 7.00
24 to 30 ins. tr. ....	12.00	100.00	6 to 12 ins., 2 br. up ....	.80	7.00	18 to 24 ins., c. ....	1.25	10.00
<b>CARAGANA ARBORESCENS.</b> Siberian Pea Tree.			12 to 18 ins., 3 br. up ....	1.50	12.00	18 to 24 ins., tr. ....	3.50	30.00
12 to 18 ins., s. ....	\$1.25	\$10.00	<b>LIGUSTRUM SINENSE.</b> South Privet.			2 to 3 ft., tr. ....	5.00	40.00
18 to 24 ins., s. ....	1.50	12.00	6 to 12 ins., s. ....	\$0.45	\$3.50	<b>VITEX AGNUS-CASTUS.</b> Lilac Chaste Tree.		
<b>CORNUS AMOMUM.</b> Silky Dogwood.			12 to 18 ins., s. ....	.60	5.00	<b>VITEX INCISA.</b> Cutleaf Chaste Tree.		
<b>CORNUS SANGUINEA.</b> Blood Twig Dogwood.			18 to 24 ins., s. ....	.70	6.00	12 to 18 ins., s. ....	\$1.25	\$10.00
6 to 12 ins., c. ....	\$1.25	\$10.00	<b>LONICERA FRAGRANTISSIMA.</b> Winter Honeysuckle.			18 to 24 ins., s. ....	2.00	15.00
12 to 18 ins., c. ....	1.50	12.00	6 to 12 ins., c. ....	\$1.50	\$12.00	<b>WEIGELA.</b>		
18 to 24 ins., c. ....	2.00	15.00	12 to 18 ins., c. ....	2.00	15.00	Varieties:		
18 to 24 ins., tr. ....	4.00	35.00	18 to 24 ins., c. ....	2.50	20.00	Amabilis, light pink.		
2 to 3 ft., tr. ....	6.00	50.00	12 to 18 ins., 2-yr., 3 br. up ....	3.50	30.00	Gustave Mallett, light pink.		
<b>CORNUS STOLONIFERA.</b> Red Osier Dogwood.			18 to 24 ins., 2-yr., 3 br. up ....	4.50	40.00	Hendersonia, dark pink.		
6 to 12 ins., s. ....	\$1.00	\$ 8.00	2 to 3 ft., 2-yr., 4 br. up ....	8.00	70.00	Mme. Lemoine, dark pink.		
12 to 18 ins., s. ....	1.25	10.00	<b>LONICERA TATARICA.</b> Tatarian Honeysuckle.			Rosea, pink.		
18 to 24 ins., s. ....	1.50	12.00	Varieties:			6 to 12 ins., c. ....	\$1.50	\$12.50
18 to 24 ins., tr. ....	3.50	30.00	Alba, white.			12 to 18 ins., c. ....	2.00	15.00
2 to 3 ft., tr. ....	4.50	40.00	Rosea, pink.			18 to 24 ins., c. ....	2.50	20.00
<b>CYDONIA JAPONICA.</b> Japanese Quince.			6 to 12 ins., c. ....	\$2.00	\$15.00	12 to 18 ins., tr., br. ....	3.50	30.00
4 to 6 ins., s. ....	\$0.90	\$ 7.00	12 to 18 ins., c. ....	2.50	20.00	18 to 24 ins., tr., br. ....	5.00	45.00
6 to 12 ins., s. ....	1.25	10.00	18 to 24 ins., c. ....	3.00	25.00	2 to 3 ft., tr., br. ....	9.00	80.00
<b>DEUTZIA SCABRA.</b>			12 to 18 ins., hedging ....	4.00	35.00	<b>WEIGELA LUTEA.</b> Yellow.		
Varieties:			18 to 24 ins., hedging ....	5.00	45.00	6 to 12 ins., l.o. ....	\$2.50	\$20.00
Crenata, double pink.			<b>RHUS CANADENSIS.</b> (Aromatica). Fragrant Sumac.			12 to 18 ins., l.o. ....	3.00	25.00
Pride of Rochester, double rose.			6 to 12 ins., s. ....	\$1.50	\$12.00	<b>WEIGELA VARIEGATED.</b> Pink flower. Variegated leaf.		
12 to 18 ins., c. ....	\$1.50	\$12.00	12 to 18 ins., s. ....	2.00	15.00	6 to 12 ins., c. ....	\$2.00	\$15.00
18 to 24 ins., c. ....	2.00	15.00	18 to 24 ins., s. ....	2.50	20.00	12 to 18 ins., c. ....	2.50	20.00
18 to 24 ins., well br. ....	4.00	35.00	<b>RHUS.</b> Sumac.			18 to 24 ins., c. ....	3.00	25.00
<b>ELÆAGNUS ANGUSTIFOLIA.</b> Russian Olive.			Varieties:			12 to 18 ins., well br. ....	4.50	40.00
12 to 18 ins., s. ....	\$1.50	\$12.00	Copallina, Shining Sumac.			18 to 24 ins., well br. ....	6.00	50.00
18 to 24 ins., s. ....	2.00	15.00	Glabra, Smooth Sumac.			2 to 3 ft., well br. ....	9.00	80.00
			Typhina, Staghorn Sumac.					
			12 to 18 ins., s. ....	\$0.75	\$ 6.00			
			18 to 24 ins., s. ....	.90	7.00			
			2 to 3 ft., s. ....	1.25	10.00			



## FOREST AND SHADE TREES

Per 100 Per 1000		Per 100 Per 1000		Per 100 Per 1000	
<b>ACER DASYCARPUM.</b> Silver Maple.		<b>HICORIA OVATA.</b> Shagbark Hickory.		<b>OXYDENDRON ARBOREUM.</b> Sourwood.	
6 to 12 ins., s.	\$0.50 \$3.00	4 to 6 ins., s.	\$2.00 \$15.00	6 to 12 ins., s.	\$1.00 \$ 8.00
12 to 18 ins., s.	.70 6.00	6 to 12 ins., s.	2.50 20.00	12 to 18 ins., s.	1.25 10.00
18 to 24 ins., s.	1.00 8.00				
5 to 6 ft., tr., br.	15.00	<b>JUGLANS CINEREA.</b> Butternut.		<b>PLATANUS OCCIDENTALIS.</b> American Plane Tree.	
6 to 8 ft., tr., br.	20.00	<b>JUGLANS NIGRA.</b> Black Walnut.		6 to 12 ins., s.	\$0.60 \$5.00
8 to 10 ft., tr., br.	25.00	6 to 12 ins., s.	\$1.25 \$10.00	12 to 18 ins., s.	.80 7.00
1 1/4 to 1 1/2 in. cal., tr.	35.00	12 to 18 ins., s.	1.50 12.00		
1 1/2 to 2 in. cal., tr.	40.00	18 to 24 ins., s.	2.00 15.00	<b>POPULUS NIGRA ITALICA.</b> Lombardy Poplar.	
<b>ACER NEGUNDO.</b> Box Elder.		2 to 3 ft., s.	2.50 20.00	12 to 18 ins., c.	\$1.25 \$10.00
6 to 8 ft., tr., br.	\$20.00	3 to 4 ft., s.	3.50 30.00	18 to 24 ins., c.	1.50 12.00
8 to 10 ft., tr., br.	25.00	4 to 5 ft., s.	15.00 125.00	2 to 3 ft., c.	2.25 17.50
				3 to 4 ft., c.	3.00 25.00
<b>ALBIZZIA JULIBRISSIN.</b> Mimosa Tree.		<b>JUGLANS SIEBOLDIANA.</b> Japanese Walnut.		<b>PRUNUS AMERICANA.</b> American Plum.	
12 to 18 ins., s.	\$4.00 \$35.00	18 to 24 ins., s.	\$10.00	6 to 12 ins., s., No. 3	\$0.70 \$ 6.00
18 to 24 ins., s.	5.00 45.00	2 to 3 ft., s.	15.00	12 to 18 ins., s., No. 2	1.00 8.00
2 to 3 ft., s.	8.00	3 to 4 ft., s.	25.00	18 to 24 ins., s., No. 1	1.25 10.00
<b>BETULA LENTA.</b> Sweet Birch.		<b>LIQUIDAMBAR STYRACIFLUA.</b> Sweet Gum.		2 to 3 ft., tr.	5.00 40.00
12 to 18 ins., s.	\$1.25 \$10.00	12 to 18 ins., s.	\$1.25 \$10.00	3 to 4 ft., tr.	6.00 50.00
18 to 24 ins., s.	1.50 12.00	18 to 24 ins., s.	2.25 17.50	4 to 5 ft., tr.	7.00 60.00
<b>CATALPA BIGNONIOIDES.</b> Common Catalpa.		2 to 3 ft., s.	2.50 20.00	<b>ROBINIA PSEUDOACACIA.</b> Black Locust.	
<b>CATALPA SPECIOSA.</b> Western Catalpa.		4 to 5 ft., tr.	30.00	4 to 6 ins., s.	\$0.30 \$2.00
12 to 18 ins., s.	\$0.60 \$5.00	5 to 6 ft., tr.	35.00	6 to 12 ins., s.	.40 3.00
18 to 24 ins., s.	.70 6.00	6 to 8 ft., tr.	60.00	12 to 18 ins., s.	.60 5.00
2 to 3 ft., s.	1.00 8.00			18 to 24 ins., s.	.70 6.00
4 to 5 ft., tr. whips	8.00	<b>LIRIODENDRON TULIPIFERA.</b> Tulip Tree.		2 to 3 ft., s.	1.25 9.00
5 to 6 ft., tr. whips	10.00	4 to 6 ins., s.	\$0.45 \$ 3.50	<b>ULMUS AMERICANA.</b> American Elm.	
<b>CORNUS FLORIDA RUBRA.</b> Pink-flowering Dogwood.		6 to 12 ins., s.	.60 5.00	6 to 12 ins., s.	\$0.40 \$ 3.00
18 to 24 ins., bare root	\$40.00	3 to 4 ft., tr.	25.00 200.00	2 to 3 ft., s.	1.25 10.00
2 to 3 ft., bare root	50.00	4 to 5 ft., tr.	30.00	3 to 4 ft., s.	1.50 12.00
<b>FAGUS AMERICANA.</b> American Beech.		5 to 6 ft., tr.	35.00	4 to 5 ft., s.	2.50 20.00
6 to 12 ins., s.	\$0.70 \$ 6.00	<b>MORUS ALBA TATARICA.</b> Russian Mulberry.		<b>ULMUS PUMILA.</b> Chinese Elm.	
12 to 18 ins., s.	1.00 8.00	6 to 12 ins., s.	\$0.50 \$4.00	6 to 12 ins., s.	\$0.40 \$ 3.00
18 to 24 ins., s.	1.50 12.00	12 to 18 ins., s.	.70 6.00	12 to 18 ins., s.	.60 5.00
<b>HICORIA LACINIOSA.</b> Shellbark Hickory.		2 to 3 ft., tr.	12.00	18 to 24 ins., s.	1.25 10.00

## VINES AND CREEPERS

Per 100 Per 1000		Per 100 Per 1000		Per 100 Per 1000	
<b>AMPELOPSIS TRICUSPIDATA VEITCHII.</b> Boston Ivy.		<b>CELASTRUS SCANDENS.</b> American Bittersweet.		<b>PUERARIA THUNBERGIANA.</b> Japan or Kudzu Bean.	
1-yr., s., No. 1	\$2.50 \$20.00	6 to 12 ins., 1-yr., s.	\$1.25 \$10.00	1-yr., s., No. 1	\$2.50 \$20.00
1-yr., s., No. 2	2.00 15.00	12 to 18 ins., 1-yr., s.	1.50 12.00	1-yr., s., No. 2	2.00 15.00
1-yr., s., No. 3	1.50 12.50	18 to 24 ins., 1-yr., s.	2.00 15.00		
<b>ARISTOLOCHIA TOMENTOSA.</b> Dutchman's Pipe.		12 to 18 ins., tr., br.	4.50 40.00	<b>VINCA MINOR.</b> Common Periwinkle.	
1-yr., s., No. 1	\$1.50 \$12.00	18 to 24 ins., tr., br.	5.50 50.00	Medium lining-out	\$0.75 \$5.00
1-yr., s., No. 2	1.25 10.00	2 to 3 ft., tr., br.	6.50 60.00	Heavy lining-out	1.00 7.00
<b>BIGNONIA RADICANS.</b> Trumpet Creeper.		6 to 12 ins., c., fruiting	2.50 20.00	<b>VITIS ROTUNDIFOLIA.</b> Muscadine.	
6 to 12 ins., 1-yr., s.	\$1.50 \$12.00	12 to 18 ins., c., fruiting	3.00 25.00	6 to 12 ins., 1-yr., No. 3	\$0.70 \$ 6.00
12 to 18 ins., 1-year, s.	2.00 15.00	<b>HEDERA HELIX.</b> English Ivy.		12 to 18 ins., s., No. 2	.90 8.00
18 to 24 ins., 2-yr., tr., No. 1	5.00 45.00	2 1/4-in. pots	\$8.50	18 to 24 ins., s., No. 1	1.50 12.00
12 to 18 ins., 2-yr., tr., No. 2	4.00 35.00	<b>LONICERA JAPONICA HALLIANA.</b> Hall's Japanese Honeysuckle.			
<b>CELASTRUS ORBICULATUS.</b> Oriental Bittersweet.		Small lining-out	\$0.70 \$ 6.00	<b>UNDERSTOCKS</b>	
6 to 12 ins., s.	\$1.25 \$10.00	Medium lining-out	1.00 8.00	<b>ROSA MULTIFLORA JAPONICA SEEDLINGS.</b>	
12 to 18 ins., s.	1.50 12.00	2-yr., tr., No. 1	5.00 40.00	Per 100 Per 1000	
18 to 24 ins., s.	2.00 15.00	2-yr., tr., No. 2	3.00 25.00	No. 1, 3/16-in. up	\$1.25 \$10.00
12 to 18 ins., tr., br., No. 2	4.50 40.00	2-yr., tr., No. 3	2.00 15.00	No. 2, 2/16 to 3/16-in.	1.00 8.00
18 to 24 ins., tr., br., No. 1	5.50 50.00	3-yr., tr., No. 1	5.00 40.00	No. 3, under 2/16-in.	.70 6.00
2 to 3 ft., extra hvy.	6.50 60.00	3-yr., tr., No. 2	4.00 35.00		

Wholesale Only

Nothing sold at retail

## FOREST NURSERY COMPANY, INC.

Established 1887  
By J. H. H. Boyd

McMINNVILLE, TENNESSEE

J. R. Boyd  
President



## Charlie Chestnut

### Rooms for Tourists



I can well remember the hot arguments between Emil and his Mrs. that led up to the time when Emil put up the sign "Rooms for Tourists." And I can also remember when the sign came down. But its what happened in the meantime that I am going to tell about.

Emil's wife used to hound him at regular intervals because they didn't have no electric lights or furnace or bath room like most of the neighbors. Emil was in favor of the old fashioned system. "I was raised on outside plumbing," he said "and its good enough for me."

Time went on until finally he started to give in just a little. That is he told his Mrs. they might put in a water system someday when business picked up and he could afford it. He thought that was a safe promise. Up to that time he wouldn't even admit he would take it even if it was free. One day the Mrs. sug-

gested they put in the improvements on easy payments and that she would have rooms for tourists to make the payments. She had it all figured out from the mail order catalog how much it was down and how much it was per month. "It says in the catalog a handy man can install all the stuff hisself," she told Emil. "There aint nothing to it. All you got to have is a little elbow grease and a monkey wrench. My goodness," she says, "I could do it myself if you aint able."

Thats how it come about a few weeks later all the stuff come in down to the depot. I went down with the truck and brought it out to the house.

Me and Emil worked on it off and on all that winter and part of the next spring, until we finally got it working after a fashion. Then she put up the sign, "Rooms for Tourists."

It was just after the new cement road come past the nursery and there was beginning to be a few cars come along that road now and then. A few odds and ends of tourists stopped in the first few weeks, most of them with broken down cars and all of them with big families of babies and old people, so sometimes there was four or five in a room. Emil got awful tired of it. More than once he had to give up his room and sleep on the cot over in the office or by the boiler in the greenhouse. "Its a fine situation when a person cant even sleep in his own house," he used to growl at me and his Mrs.

"Dont bark at me," I says, "it aint my idea and anyway after all the payments is made you can take the sign down."

"I will be an old man when all the payments is made on it, Chas," he says. "By the time we get it paid for the stuff will all be worn out anyway."

Along late in the summer a gent and his wife stopped in and took a room. He didnt look to me like a gent who would be stopping at a rooms for tourists place. He parked



**Our Decorative Floor Display Rack**  
30 inches wide, 15 inches deep,  
55 inches high.

## Sell Vaughan's Seeds WITHOUT COST TO YOU

**NOT** On Sale at Every Corner  
Quality seeds, different from those on sale at every other store in your community, give you prestige and attract discriminating customers, who will also buy shrubs, perennials, etc. A heavy demand for Defense Gardens is expected this spring.

Vaughan's Seeds are known to you; and our modern, decorative display racks and advertising materials are especially designed to fit your retail display rooms. No nurseryman should overlook this opportunity to share in a business which really belongs to him. Thousands are successful at it.

Sign the contract below and, if you are a nurseryman of established credit, an assortment of Vaughan's Seeds will come to you without a cent paid until the seeds are sold. Retain 40 per cent of the sales as your profit, sending the rest to us. An early and increased demand is expected. Act now!

VAUGHAN'S SEED STORE  
Commission Box Department—A.N.-41.  
601 W. Jackson Blvd., Chicago, Ill.

I agree to display this assortment and the advertising material sent with it, in my store, and to sell all the seeds possible. On or after July 1, when requested by you, I agree to return the unsold seeds by parcel post, and to pay, upon receipt of statement, the retail value of the seeds sold by me, less 40% commission. Unsold seeds returned by me are to be credited, and only the amount of seed actually sold, less 40% commission, is to be billed. I further agree, when season is ended, to destroy the display rack furnished by you with the goods.

☐ Rack as illustrated.

☐ Flower seeds only, check here.

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104...

# Introducing...

## JUNIPERUS SCOPULORUM KENYONI

**J**UNIPERUS Scopulorum Kenyoni, the Dewdrop Juniper, is offered to the trade for the first time this season. Leading nurserymen who have seen this new evergreen growing in our nursery have pronounced it to be the most beautiful they have observed. Instead of taking out a plant patent, we have waited until we have propagated a large stock, and it will now be sold without restrictions for reproduction.

This new and distinct evergreen is a medium grower and under our conditions attains a height of about 3 to 4 feet from a graft in three years. It is broadly pyramidal, of extremely compact growth and fills out more quickly and better than any other evergreen we have seen anywhere. Even small 1-year plants will be compact little specimens. Foliage is soft and lacy, with a beautiful bright blue color—summer and winter. Growth is clean and never shows a trace of brown foliage or dead growth outside or inside, which is unusual for so compact a plant.

All plants have a central leader and good standard form. Shearing is not required to make them compact and symmetrical. They have never been injured in the least by any extremes of drought or cold and this includes plants sent over a wide area in the west and north for testing purposes.

Juniperus Scopulorum Kenyoni is not "just another variety of Juniperus Scopulorum," but a distinct new break and sport in this family. During the past two seasons we have had many nurserymen visit us to see this plant. We have purposely left the block containing these plants unlabeled, but our visitors always pick out these plants from over 100 other kinds and ask, "What is that variety?" It is outstandingly beautiful.

This evergreen is hardy, clean growing, healthy, compact and beautiful. It propagates easily from grafts and is the only Scopulorum variety we have found that roots readily from cuttings. What more could be asked of any evergreen?



An unsheared plant of Juniperus Scopulorum Kenyoni, 30 to 36 inches. Two years' growth from a graft.

Grafts on Red Cedar Understock	Each Per 10	Each Per 100	Each Per 1000
Out of 2 1/4-in. rose pots.....	\$0.60	\$0.50	\$0.40
<b>1-year Grafts, Lath-house Grown</b>			
Quart-size containers, 9 to 12 ins. ....	.85	.75	.60
Quart-size containers, 12 to 15 ins. ....	1.00	.85	.75
Field-grown, B&B, 18 to 24 ins. ....	2.25	1.75	1.50
Field-grown, B&B, 24 to 30 ins. ....	3.25	2.75	2.50
<b>Own-Root Plants from Cuttings</b>			
Out of 2 1/4-in. rose pots, 4 to 6 ins. ....	.35	.30	.25

Orders will be filled in rotation as received.

## KENYON'S NURSERY

10th St. and May Ave.

OKLAHOMA CITY, OKLA.

:: PROPAGATORS OF MORE THAN 100 KINDS OF JUNIPERS ::



his car around in back of the corn crib and stayed right in his room for over a week. I only caught a glimpse of him once or twice. He even took his meals served in his room so Emil told me. "Just liked the country air and a rest from his business," so Emil repeated to me.

"If we could get couples like that right along, it wouldn't be no trick to get the stuff paid for in one lifetime," Emil said.

A day or two later, I seen Emil driving the gent around the nursery talking real confidential with his arms waving, so I knew he was giving one of his pep talks. I couldn't hear what the gent was saying, but I could tell there was some kind of a deal afoot. It was a good bet so far as I was concerned that Emil was not the one who was going to profit by it. For several days Emil was excited about something and was going around with a big cigar. He even took to wearing his good blue serge suit during the week which I never seen him do before.

"What would you think, Chas.?" Emil says one morning, "if I was to offer you a chance to buy an interest in the business. I'm making plans to incorporate. Riverbend Nursery, Inc. is what I aim to call it from now on. I am going to sell shares of stock and you can have a chance to buy Chas. What do you think of it, Chas?" Emil was so excited he even offered to give me a cigar and promised to pay me my back wages just as soon as the deal was fixed up.

"Emil," I says, "I think its a hundred to one shot there is a catch in it someplace or else you need to get your wheels overhauled. Maybe both. What got you into the notion anyway, Emil?" I says. "If you cant keep the wolf pushed back from the door when you are on your own how in the world do you aim to pay dividends and expand the business? It dont sound good to me."

"Chas," he says, "you aint got no more imagination than a rabbit. Where do you think I would be at today if I hadnt grabbed my opportunity and started up this business for myself. Probably I would still be driving the milk wagon."

"Yes," I says, "and getting paid regular wages too. Dont forget that. I dont claim you are any too gilt edge a success as a nurseryman."

"Chas," he says, "that hurts me to hear you say that, but I am going to overlook it. Mr. Pinfeather, my roomer, says it would be best to have you in the company too. He says it will be easier to sell the stock if all the employees are stock holders. People will have more confidence in it he says. He says you should have 10 shares which will cost you only \$500.00. \$200.00 down and \$300.00 you can pay for out of the dividends. Sounds good, dont it Chas, I told him you would take at least 10, Chas. What do you think of it, Chas? I can have Mr. Pinfeather explain it to you Chas., if you aint just clear on what the plan is."

Without waiting for my answer, he dashed over to the house and come back with Mr. Pinfeather. "Chas. is my head salesman," he says to Mr. Pinfeather, "and he ought to be a stock holder. Go to work and explain it to him, Mr. Pinfeather."

"Mr. Chestnut," he says. "By the way have a cigar," and he handed me a 10c cigar. "Mr Chestnut," he continued, "for several days I have been studying over the opportunity to build this business up into a big corporation. We plan to enlarge the business, to put into effect all the modern merchandising plans I have been so successful with in other fields. What we need is more capital, and more land, and a big advertising

program. All right, what do we do? Do you follow me, Mr. Chestnut?"

"O.K." I says. "Ill bite, what do we do."

"First thing we do, Mr. Chestnut, is to incorporate, get a charter. Then I will get in touch with my connections and sell the stock so we can have capital to work with. I got it in mind to incorporate for \$50,000.00, 500 shares at \$100.00 per share. We have appraised the place here for \$24,000.00, and we will give Emil 240 shares for that amount, but he must, of course, have controlling interest so he will put in \$1,100.00 in cash, and that will give him 51% of the stock, or 251 shares. I myself will buy for cash 100 shares for \$5,000.00. Now we figured you, Mr. Chestnut, for 5 shares for \$500.00. That makes 356 shares. Now the rest of the 144 shares totalling \$14,400.00 I will sell to my connections in the city. Then we will take the money and start expanding. By the end of the first year we should be able to declare a 10% dividend, and then we will gradually buy back the stock and only the three of us will, in the end, own all the stock of the Riverbend Nursery, Inc. Now, Mr. Chestnut, do I make myself clear? Investors are always a little sceptical unless the promoters put up some of the cash themselves. If we subscribe to the

## Northern - grown SEEDS

The following seeds have been collected by us at the proper time, carefully cleaned and stored or stratified in the proper way at the right temperature. They have been treated in the same way as we treat the seeds we collect for our own use. The methods we use are those which years of experimenting have shown will cause a high percentage of germination at the proper time. All seeds are cleaned and no drying is allowed to occur, if this has been found to retard germination.

The prices quoted cannot be compared with prices of dried berries or flower clusters.

	¼ lb.	1 lb.		¼ lb.	1 lb.
<i>Acer platanoides</i> .....	\$0.55	\$1.80	<i>Ilex verticillata</i> .....	\$1.50	\$5.00
<i>Amorpha canescens</i> (pods) ..	.65	2.25	<i>Juniperus virginiana</i> .....	2.00	6.00
<i>Berberis vulgaris</i> .....	.90	3.00	<i>Myrica carolinensis</i> .....	2.00	6.00
<i>Betula populifolia</i> .....	.75	...	<i>Pieris floribunda</i> , oz. ..	\$1.00	3.00
<i>Carpinus caroliniana</i> .....	1.00	...	<i>Ptelea trifoliata</i> .....	.35	1.00
<i>Celastrus orbiculatus</i> .....	1.00	3.30	<i>Rhamnus cathartica</i> .....	.90	...
<i>Cephalanthus occidentalis</i> ..	.40	1.25	<i>Rhamnus davurica</i> .....	.90	3.00
<i>Chionanthus virginica</i> .....	.50	3.00	<i>Rhodotypos kerrioides</i> .....	.75	2.75
<i>Cornus paniculata</i> .....	.75	2.75	<i>Rhus canadensis</i> .....	1.20	4.00
<i>Cotoneaster divaricata</i> .....	1.25	4.50	<i>Syringa japonica</i> , oz. ..	\$1.00	3.00
<i>Cotoneaster foveolata</i> .....	1.10	...	<i>Viburnum cassinoides</i> .....	2.00	6.00
<i>Cotoneaster lucida</i> .....	1.10	...	<i>Viburnum dentatum</i> .....	1.50	4.50
<i>Euonymus yedoensis</i> .....	2.00	...	<i>Viburnum Lentago</i> .....	2.00	6.00
<i>Halesia tetraptera</i> .....	.35	1.00	<i>Viburnum Opulus</i> .....	1.50	4.00

## PERENNIALS

	¼ oz.	1 oz.		¼ oz.	1 oz.
<i>Allium Schenoprasum</i> .....	\$0.30	\$1.00	<i>Echinops spherocephalus</i> ..	\$0.40	...
<i>Alyssum argenteum</i> .....	.50	1.60	<i>Liatris pycnostachya</i> .....	...	2.40
<i>Alyssum rostratum</i> .....	.50	1.60	<i>Limonium latifolium</i> .....	.40	1.40
<i>Anchusa l. Dropmore</i> .....	.10	.30	<i>Lupinus Downer's Hybrids</i> ..	.15	.50
<i>Asclepias tuberosa</i> .....	.70	2.40	<i>Polemonium caeruleum</i> .....	.15	.50
<i>Centaurea macrocephala</i> .....	.40	1.20	<i>Salvia argentea</i> .....	.20	.60
<i>Cerastium tomentosum</i> .....	.40	1.40	<i>Salvia pratensis</i> .....	.20	1.60
<i>Delphinium Gold Medal</i> .....	...	...	<i>Stachys lanata</i> .....	.25	.90
<i>Hybrids</i> .....	.40	1.40	<i>Salvia azurea grandiflora</i> ..	.55	1.80
<i>Dianthus arenarius</i> .....	.70	2.40	<i>Thermopsis caroliniana</i> ..	.60	2.00
<i>Dianthus cæsius</i> .....	.35	1.20	<i>Liatris spicata</i> .....	.60	2.00
<i>Dianthus plumarius semper-florens</i> ..	.30	1.00	<i>Heliopsis a. zinniflora</i> .....	.55	1.80

We have a great many varieties of seeds not listed. Write for prices.

**Bay State Nurseries, Inc.,**

**North Abington, Mass.**



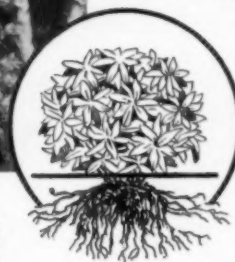
## Let's Talk Sense About RHODODENDRONS

[The Make-Good Kind]

DID you ever hear tell of anyone getting a gallon out of a half-gallon jug? All right, then, is it any more sensible to expect to get top-hole tops from low-hole bottoms, or roots, so to speak.

If they are not there, they just are not there. You know full well that most anyone can collect Rhododendrons, or nursery grow them. We do both. But there's a right way and a wrong. Neither one shows up at the start. But they surely do afterwards.

Doing things right generally costs more than doing them wrong. But the cost is a lot less in the end



when you then have to pay for it. Now we don't claim there's no one on earth who knows as much about Rhododendrons as we do. Or that nowhere else can you get as good plants. But we can say, and do it with a straight face, that no one has any better plants.

Furthermore, that when a concern stays in business for over 40 years and keeps out of jail, there must be some reason for it.

LaBars' has a reputation. One that isn't going to be sold out by cutting quality corners on anyone, just to get an order. Just naturally, we'd like to do business with you.

*La*  *Bars'*

RHODODENDRON NURSERY, FOR 40 YEARS, STROUDSBURG, PENNA.

various amounts as I have outlined it, it will not be any trouble to sell the stock just as soon as the charter comes, and I can get the papers ready. I am going to Chicago this afternoon to get some preliminary matters arranged so we can go right ahead next week with the program to sell the stock. You think it over, Mr. Chestnut, and I will be back in a day or two."

With that he walked out and left me and Emil sitting there. "Chas," Emil says, "you almost insulted Mr. Pinfeather. He is liable not to sell you anything at all if he takes a dislike to you, and then think of the opportunity you will miss out on."

"Who is this Mr. Pinfeather anyway?" I says. "He might be a fugitive from justice, or else he is just a plain crook."

"There aint no chance to get beat Chas. I am going to have 51% of the stock and I am going to be the general manager and president and you can be the vice-president. Think of that, Chas., vice-president. Dont that give you a thrill?"

Emil was riding in the clouds so I could see it would do no good to try to pick any holes in the proposi-

## HILL EVERGREENS

Good assortment of lining-out sizes, also larger grades for landscaping available for spring 1941 planting. Send for wholesale catalogue. Dealer's descriptive catalogue, illustrated in colors, also mailed on request.

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DUNDEE, ILLINOIS

## LAKE'S SHENANDOAH NURSERIES SHENANDOAH, IA.

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of  
HIGH-QUALITY NURSERY STOCK

Let us reserve the stock you will require NOW—Many varieties of stock in general will not be obtainable after our present supply is exhausted.

New Spring Bulletin No. 1, with grade count, available on request.

tion just then. "Ill think it over, Emil," I says. "By the way, where you going to get the \$1,100.00 which you will need to buy your own nursery with like Mr. Pinfeather said?"

"Mr. Pinfeather said I would only need \$1,000 now and I could give my stock for collateral on the other \$100.00. I can pay that later," Emil said. "I got \$840.00 coming on that highway job, and \$80.00 from Mrs. Brewster, that makes \$960.00, and I got over \$40.00 in the bank now, so that makes it, dont it? Where there is a will Chas., there is Emil, pretty good, aint it Chas.?"

"What about your note at the bank", I says. "You promised Mr. Cheeter you would pay as soon as you got your check from the highway dept."

"Dont worry about that, Chas. When he finds out what my plans are, he will be crazy to lend me money," Emil says.

"You told the truth, there, Emil. He would sure be crazy in the head," I said.

Two days later Mr. Pinfeather was back. He had the stock certificates all printed and a charter all complete except signing by the secy. of state. The certificates was printed in old English type, and had a fancy border just like on a wedding certificate. They looked pretty.

"All we have to do now," said Mr. Pinfeather, "is to get our money together, and then I will go in and sell the rest of the stock. We have to show the checks you know to make it legal. I have my check ready," he said, and showed Emil a check for \$5,000.00 drawn on the Bricklayers National Bank of Chicago.

"Ill have my money in a day or two," Emil says. "I think I will get Chas. in too. I been explaining it to him."

The next morning the check was in from the highway dept. "Better let me take it down to the bank, Emil," I says, "so they cant say nothing about the note. Then I will see if they will give me a loan for what I will be short on my shares."

"Thats the boy, Chas. Go ahead down to the bank. You dont have to say what you want the money for. Just tell them you are a little

short until the end of the month or something," Emil says.

I went down to the bank. "Let me see a list of the banks in Chi." I says to Mr. Cheeter. He gives me a directory, and sure enough there wasnt no such a bank as the Bricklayers Bank at all. So I went out and hung around the pool room for a hour or two to think it over. I went back home and told Emil that Mr. Cheeter would give me the money, but he had to have it approved by the board of directors who met Friday night. I could mail the check to Mr. Pinfeather so he would have it the first of the week. Mr. Pinfeather was a little disappointed but he told me to mail it sure on Monday to general delivery in Chicago. Emil give him a check for \$1000, and Mr. Pinfeather said he would be back the first of the week after he got the stock sold, and would bring the checks back.

"Just let my bill for board and room run until I get back," he said.

"Think nothing of it," said Emil.

"I guess when this thing gets started we wont be worrying about any board bills, eh Mr. Pinfeather?"

For several days Emil was making out orders for nursery stock which he had allready to mail out when the deal was complete. He even made a list of the bills he was going to pay up.

On Saturday I showed Emil my check and told him I was going down to the post office to get it mailed. He was real pleased.

"Why dont you take the P.M. off, Chas? We aint busy," he says.

"You mean with pay, Emil, or without pay?" I says.

"From now on, Chas., you will work by the month without no time off for days when you aint working. What do you think of that, Chas? Thats what comes from being incorporated," Emil says.

I left him there in the office figuring things over and didnt see him again until Monday.

When it come to the end of the week and no word from Mr. Pin-

## LINING-OUT STOCK

	100	1000
Aucuba Japonica (green), 2-yr. trs.....	\$18.00	\$150.00
Azalea Kaempferi Fedora, 1 yr. trs.....	8.00	75.00
Azalea Kaempferi Mauve Queen, 1-yr. trs.....	8.00	75.00
Azalea Kaempferi Othello, 1-yr. trs.....	8.00	75.00
Azalea Kaempferi Purple King, 1-yr. trs.....	8.00	75.00
Azalea Kurume Amena Coccinea, 1-yr. trs.....	8.00	75.00
Azalea Kurume Bouquet Rose, 1-yr. trs.....	8.00	75.00
Azalea Kurume Flame, 1-yr. trs.....	8.00	75.00
Azalea Kurume Hinodegirl, 1-yr. trs.....	8.00	75.00
Azalea Kurume Hinamoyo, 1-yr. trs.....	8.00	75.00
Azalea Ledifolia Alba, 1-yr. trs.....	8.00	75.00
Azalea Ledifolia Lady Lila, 1-yr. trs.....	8.00	75.00
Berberis Julianae, 1-yr. S.....	4.00	30.00
Berberis Julianae, 2-yr. S., trs.....	7.50	65.00
Cornus Florida, 2-yr. S., trs.....	6.00	50.00
Cornus Florida, 2 to 3 ft., B. R.....	25.00	200.00
Cornus Florida, 3 to 4 ft., B. R.....	35.00	300.00
Cotoneaster Lactea, 2-yr. S.....	4.00	30.00
Euonymus Jap. Microphyllus, 1-yr. trs.....	5.00	40.00
Euonymus Jap. Microphyllus, 2-yr. trs.....	10.00	80.00
Gypsophila Bristol Fairy, 2-yr. clumps.....	15.00	125.00
Ilex Crenata Convexa, 6 to 8 ins. (bushy), B. R.....	25.00	200.00
Ilex Crenata Rotundifolia, 6 to 8 ins. (bushy), B. R.....	25.00	200.00
Ilex Verticillata, 2-yr. S.....	5.00	40.00
Nandina Domestica, 1-yr. S.....	5.00	40.00

Prices are F.O.B. Hampton, Va.; cash with order. 250 or more at the 1000 rate.

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**Evergreens—Grafted, 18 to 24 inches.**  
**Evergreens—Cuttings, rooted.**  
**Evergreens—Cuttings, 1 and 2-year.**

• **Packing done by experts**

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**COLUMBUS, OHIO**

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## SPECIMEN NURSERY STOCK

Shade Trees, Flowering Trees and Evergreens  
 In Larger Sizes — Send for Wholesale List.

**LEWIS NURSERIES, Inc.**

**Roslyn, L. I., N. Y.**

feather, Emil was a little uneasy. "Must be having a little trouble to sell the stock or something," Emil says. "He will be along in a few days."

I didnt say nothing at all about Mr. Pinfeather. "Do you want me to go ahead and do business in the regular way, or shall we hold off everything until we get incorporated?" I says.

"Better wait a day or two, Chas." Emil says. "According to my plans, I am going to have a lot of new work to do. We wont monkey around with a lot of the small jobs we been doing. We will only take bigger stuff. Take it easy, Chas., and wait for a day or two. It wont be long."

By the end of the week, Emil begun to have that worried look. The bank called up and reminded him he promised to pay his note. "I got a big deal on, Cheeter," Emil said, "by the first of the week you will have your money. Dont worry."

On the next Tuesday, Mr. Cheeter, the banker, drove into the yard. "Emil," he says, "there is something fishy going on. Somebody has forged your name to a check. There was a check come thru for \$1000 with your name on last week, but of course I sent it back marked no funds. This A.M. it come back wanting a draft for the amount. Then I seen it was made out to Amos Pinfeather. I had a bulletin on Pinfeather from the bankers assn., but I hadnt paid no attention to it. He is wanted on a confidence charge. Getting money under false pretences. Good thing I caught it. Wonder how he got your check. He should know you aint never had that much money in the bank in your life."

"That check wasnt no—" Emil started to explain, but I choked him off.

"There was a gent stopped in here last week," I says. "Emils wife takes in tourists, you know, Mr. Cheeter. Maybe he stole a check out of the office. Thats probably it. If we had known he was a fugitive, I could of captured him," I says.

"Theres quite a reward out for him on account of a stock swindle in Iowa. If he turns up again, grab him and call the sheriff. But I guess he will never show up here again."

Emil was opening and closing his mouth all the time, but wasnt saying

## SPRING SEASON SPECIALS

CHOICE TREES, SHRUBS AND VINES OFFERED FOR SPRING SHIPMENT AT LAST YEAR'S SURPLUS PRICES.

### NOW IS THE TIME TO ORDER

Prices quoted are for lots of 25 or more—for lesser quantities add 25%. No orders accepted for less than 5 of a size or variety.

TREES		Price per 100	SHRUBS (Continued)		Price per 100
ACER dasycarpum, 1 to 1½-in.		\$50.00	PHILADELPHUS coronarius,		
dasycarpum, 1½ to 2-in.		75.00	5 to 6 ft.		\$17.50
Skinneri, 2 to 2½-in.		100.00	Lemoinei Avalanche, 3 to 4 ft.		17.50
saccharum, 2 to 2½-in.		225.00	Lemoinei Bouquet Blanc, 2 to 3 ft.		15.00
saccharum, 2½ to 3-in.		275.00	PHOTINIA villosa, 4 to 5 ft.		35.00
ÆSCULUS Hippocastanum,			PHYSOCARPUS monogynus,		
1 to 1½-in.		150.00	18 to 24 ins.		12.50
BETULA populifolia, 8 to 10 ft.		200.00	opulifolius, 3 to 4 ft.		10.00
CELTIS occidentalis, 1½ to 2-in.		150.00	PTELEA trifoliata, 4 to 5 ft.		20.00
CRATÆGUS coccinea, 2 to 3 ft.		35.00	trifoliata, 6 to 8 ft.		25.00
coccinea, 3 to 4 ft.		50.00	RHAMNUS cathartica, 4 to 5 ft.		12.50
Crus-galli, 2 to 3 ft.		65.00	cathartica, 5 to 6 ft.		15.00
mollis, 5 to 6 ft.		75.00	Frangula, 4 to 5 ft.		12.50
mollis, 6 to 8 ft.		100.00	Frangula, 5 to 6 ft.		15.00
FRAXINUS lanceolata, 1 to 1½-in.		60.00	RHUS canadensis (aromatica),		
GYMNOCLADUS dioica, 6 to 8 ft.		100.00	18 to 24 ins.		15.00
MALUS Hops, 5 to 6 ft.		65.00	canadensis (aromatica), 2 to 3 ft.		25.00
Niedzwetzkyana, 5 to 6 ft.		65.00	RIBES alpinum, 15 to 18 ins.		22.50
Parkmanii, 5 to 6 ft.		65.00	alpinum, 18 to 24 ins.		27.50
Zumi, 6 to 7 ft.		100.00	ROSA blanda, 3 to 4 ft.		10.00
OSTRYA virginiana, 8 to 10 ft.		75.00	lucida (virginiana), 3 to 4 ft.		10.00
PRUNUS americana, 4 to 5 ft.		8.00	palustris (carolina), 3 to 4 ft.		12.50
americana, 5 to 6 ft.		10.00	setigera, 2 to 3 ft.		10.00
americana, 7 to 8 ft.		15.00	SAMBUCUS canadensis, 4 to 5 ft.		20.00
SYRINGA japonica, 5 to 6 ft.		40.00	SORBARIA sorbifolia, 4 to 5 ft.		20.00
japonica, 10 to 12 ft.		200.00	SPIRÆA Bumalda Frøbeli, 2 to 3 ft.		12.50
ULMUS americana, 5 to 6 ft.		25.00	latifolia (bethlehemensis),		
americana, 5 to 6 ft.		30.00	3 to 4 ft.		15.00
americana, 1½ to 2-in.		50.00	Thunbergii, 2 to 3 ft.		17.50
kiehmii, 1½ to 2-in.		50.00	Vanhouttei, 3 to 4 ft.		12.50
SHRUBS			SYMPHORICARPOS racemosus,		
ACANTHOPANAX pentaphyllum,			2 to 3 ft.		10.00
3 to 4 ft.		\$15.00	racemosus, 3 to 4 ft.		12.50
ARONIA brilliantissima, 3 to 4 ft.		30.00	vulgaris, 3 to 4 ft.		12.50
melanocarpa (nigra), 2 to 3 ft.		25.00	SYRINGA persica, 2 to 3 ft.		20.00
BERBERIS Thunbergii, 18 to 24 ins.		10.00	vulgaris alba, 3 to 4 ft.		12.50
Thunbergii, 2 to 2½ ft.		17.50	hybrid Charles X, 4 to 5 ft.		75.00
atropurpurea, 15 to 18 ins.		20.00	hybrid Charles X, 5 to 6 ft.		100.00
atropurpurea, 18 to 24 ins.		25.00	hybrid Waldeck-Rousseau, 2 to 3 ft.		35.00
CEPHALANTHUS occidentalis,			hybrid Waldeck-Rousseau, 3 to 4 ft.		50.00
3 to 4 ft.		20.00	VIBURNUM affine hypomaculacum		
CORNUS Amomum (sericea),			(pubescens), 3 to 4 ft.		25.00
4 to 5 ft.		20.00	americanum (pembina), 2 to 3 ft.		22.50
paniculata, 3 to 4 ft.		17.50	dentatum, 2 to 3 ft.		20.00
stolonifera, 4 to 5 ft.		20.00	dentatum, 3 to 4 ft.		25.00
CORYLUS americana, 3 to 4 ft.		17.50	Lantana, 3 to 4 ft.		20.00
CYDONIA japonica, 18 to 24 ins.		10.00	Lantana, 4 to 5 ft.		22.50
EUONYMUS americanus, 4 to 5 ft.		20.00	Lentago, 3 to 4 ft.		25.00
atropurpureus, 4 to 5 ft.		25.00	Lentago, 4 to 5 ft.		30.00
FORSYTHIA intermedia, 4 to 5 ft.		15.00	molle (venosum), 3 to 4 ft.		25.00
suspensa, 3 to 4 ft.		12.50	Opulus, 2 to 3 ft.		20.00
HYDRANGEA arborescens grandiflora,			Opulus, 4 to 5 ft.		30.00
2½ to 3 ft.		20.00	WEIGELA rosea, 3 to 4 ft.		15.00
LIGUSTRUM amurense, 3 to 4 ft.		7.00	rosea, 4 to 5 ft.		17.50
amurense, 4 to 5 ft.		10.00	VINES		
Ibottum, 2 to 3 ft.		5.00	AMPELOPSIS quinquefolia, 2-yr.		\$ 7.00
Ibota, 2 to 3 ft.		6.00	ARISTOLOCHIA Sipho, 3-yr.		25.00
regelianum, 15 to 24 ins.		20.00	CELASTRUS orbiculatus (articulatus),		
regelianum, 2 to 3 ft.		25.00	2-yr.		8.00
vulgaris, 4 to 5 ft.		10.00	orbiculatus (articulatus), 3-yr.		10.00
LONICERA fragrantissima, 4 to 5 ft.		20.00	scandens, 2-yr.		8.00
Morrowi, 4 to 5 ft.		12.50	scandens, 3-yr.		10.00
tatarica rosea, 4 to 5 ft.		12.50	GRAPES		
Zabelii, 3 to 4 ft.		22.50	Campbell Early, 3-yr.		\$ 5.00
MAHONIA Aquifolium, B&B,			Concord, 3-yr.		5.00
15 to 18 ins.		75.00	Moore Diamond, 3-yr.		5.00
			Moore Early, 3-yr.		5.00
			Niagara, 3-yr.		5.00
			Warden, 3-yr.		5.00

All stock offered and prices quoted for Spring 1941 shipment only. Orders accepted subject to prior sales and our usual terms and conditions of sale and shipment. Packing charges extra at cost. No charge for packing carlot orders in bulk. Cash with order or satisfactory references. If interested in larger quantities write for prices.

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**NAPERVILLE DU PAGE COUNTY ILLINOIS**



anything. His adams apple was dancing a jig, and he had a dazed look in his eye.

"By the way, Mr. Cheeter," I says, "here is a check for \$840 Emil give me to cover his note, but I forgot to deposit it, and I been carrying it around in my pocket for a week."

"Well now, thats better, Emil," said Mr. Cheeter. "I was getting worried about that note. Good day, gentlemen," he says and walked out to his car.

I waited for Emil to say something. He sat there for a minute. "Chas," he says, "we have been swindled. You are out \$200, and I am out two weeks board and room bill. Gosh, Chas, its a good thing you forgot to deposit that check. For once it paid you to be so careless."

"Emil," I says, "I wasnt took in so easy. I never mailed my check at all, and I didnt deposit your check because I smelled a rat."

"Well then we aint out nothing except the board bill. Thank goodness for that. Dont tell the Mrs. Ill pay that to her myself," Emil said with a sigh of relief.

"There is just one thing more, Emil. Dont forget I am getting paid from now on by the month, with no time out. Dont forget that."

"Why, Chas., you wouldnt hold me to that after all I been thru. I only said that if we was incorporated. However, if orders are fairly good next spring, I will give you time off for the convention, and I might even pay half of your trip on the boat."

"Sure you aint just talking reckless now, Emil?" I says as I went out.

He come out of the office as I drove by on my way home. "Wait a minute, Chas," he called to me. "Just take that tourist sign off the fence as you go by the gate, and throw it in the river when you go over the bridge."

#### TAXUS MEDIA HICKSI.

The Hicks yew, *Taxus media* Hicksi, has in the past decade become one of our most common yews. While it is often described as a compact, columnar plant, it requires considerable pruning to make it attain this form. When allowed to grow naturally it develops either with a relatively broad base and narrow top or with many side branches to create

a narrow vase-shaped plant, often bare at the base. Plants allowed to grow naturally into these forms are susceptible to considerable damage and unsightliness from heavy snows and ice. Because of this fact, and where snow and ice are troublesome, it is advisable to grow it with a central leader and shear it heavily to form a formal, compact column.

When grown as a compact column and planted relatively close, it makes a fine clipped hedge with its wide-spreading, dark green foliage. However, the hedge does not "fill up" so rapidly as may be desired and consequently some of the other yews are as desirable for hedge purposes. There have been some attempts to trim the Hicks yew into a dwarf, compact globose form. This can be done, but may not be necessary, as the same form can be obtained from some of the other yews with less trouble.

Culture requirements and methods of propagation are the same as for the yews previously illustrated and discussed. Except for hedges, the Hicks yew should be used mainly as an accent plant, because it is so positive in form.

L. C. C.

#### NORTH JERSEY ELECTION.

The North Jersey Metropolitan Nurserymen's Association held its annual meeting at Caldwell, N. J.,

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Norway and Schwedler Maple Whips,  
5 to 6 ft., and 6 to 7 ft.

HYDRANGEA P. G., 1-yr. layers  
No. 1 grade, \$3.50 per 100, \$30.00 per 1000

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ORNAMENTAL TREES, SHRUBS  
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SPECIMEN PIN OAKS, 3 to 4½-in.;  
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ft. Transplanted 1938.

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PERFECT SPEC. HEMLOCK, 6 to 15 ft.

SEVERAL THOUSAND  
JAPANESE BEETLE TREATED  
HEMLOCK, 6 to 10 ft.  
TAXUS CAPITATA, 4 to 10 ft.

All reasonably priced

Outpost Nurseries, Inc.  
Ridgefield, Conn.

March 13, and reelected the following officers: President, Charles Hess, Mountain View; vice-president, Cornelius Kievit, Hawthorne; secretary, William Hallicy, Clifton, and treasurer, Harry Deverman, Clifton.

Gerard Grootendorst, Oakland, and Martin Freese, Caldwell, were elected as directors, succeeding Russell Jacobus, Montclair, and Martin Snel, Paramus.

The holdover directors are: Engel Zeders, Mountain View; Otto Bergmann, Paramus; William Flavell, Caldwell, and Roy Blair, Nutley.

The treasurer's report disclosed that members of the association last year spent a total of \$1,850 in the co-operative buying of tools and supplies.

#### HESS-HALLICY WEDDING.

Miss Charlotte Hallicy, daughter of Mr. and Mrs. Edward Hallicy, Mount Prospect avenue, Clifton, N. J., was married March 8, to Cornelius William Hess, son of Mr. and Mrs. C. W. M. Hess, Mountain View, N. J. The ceremony was performed at the bride's home by the Rev. Morlin Zimmerman.

The bride was given in marriage by her father. The attendants were Mr. and Mrs. Edward T. Hallicy, brother and sister-in-law of the bride.

#### FLOWERING CRABS

Bench grafts for lining out.  
\$5.00 per 100. 10 or more at this rate.  
Arnoldiana, very early pink.  
Bechtel's, double pink.  
Eleyi, semidouble, red.  
Floribunda, single, carmine to white.  
Niedzwetzkyana, red Russian, deep rose,  
reddish foliage, dark red fruits.  
Scheideckeri, early pink, very profuse.

**Fine Buddleia** Per 100  
Young potted plants for lining out.  
Dubonnet, new rich wine-red. .... \$12.00  
Charming, beautiful pink. .... 9.00  
Eleanor, new deep blue, fine. .... 9.00  
Hartwegi, large lavender. .... 8.00  
He de France, deep purple. .... 6.00  
Magnifica Imp., violet, fine cut. .... 6.00  
Red-leaf Jap. Barberry, 9 to 12 ins. 3.00  
Hydrangea P. G., large-flowering  
type, 6 to 12 ins. .... 3.50  
Viburnum Opulus, 9 to 12 ins. .... 3.50  
Am. Snowball, 9 to 12 ins. .... 3.50  
Japan Snowball, 9 to 12 ins. .... 4.25

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\*Trade Mark Reg. U. S. Pat. Off.

"Hans" Hess is working with his father, popularly known as Charles Hess, at Hess' Nurseries.

The bride and groom left on an automobile trip to Florida and on their return they will be at home in Mountain View.

Among the guests known to the trade were Mr. and Mrs. Frank S. LaBar, LaBars' Rhododendron Nursery, Stroudsburg, Pa.; Mr. and Mrs. William Howe, Howe Nurseries, Pennington, N. J.; Henry Lewning, shade tree commissioner, Ridgewood, N. J., and his wife, and Mr. and Mrs. William Hallicy, Clifton Nursery.

A PERMIT has been granted Kiyotsuhu Tsuchiya to operate a nursery at 11928 Washington boulevard, Culver City, Cal.

ARRIVING from England March 12, Brigadier Armond Smith, of E. D. Smith & Sons, Ltd., Winona, Ont., Can., had been invalided home because of a bad fracture of his left hip. He was in charge of Division 1, Infantry Brigade. He will take treatment at Toronto and when able hopes to return to military service.

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# Excerpts from a Plantsman's Notebook

By C. W. Wood

## Annual Pinks.

(February 28, 1941.) The term *Dianthus chinensis* (*D. sinensis*, as usually written) covers a multitude of pinks at present. In the usual interpretation of the name, it and its geographical forms cover a wide area in the northern hemisphere, extending from the Iberian peninsula in Europe to Japan in Asia. After its various forms reached gardens, they and no doubt other species were used to make a number of garden strains, most of which bear distinct names, as *D. Heddwigii*, until the entire matter is now so complicated it would take an expert to figure out all the details.

True *D. chinensis* is a short-lived perennial, often biennial, and more or less of an annual on heavy soil. The same is true of most of its forms. As type *chinensis* is seldom, if ever, available and would not hold the interest of gardeners by the side of improved strains, it may be dismissed from further consideration. If the forms of *D. chinensis* of seedsmen, which include *D. Heddwigii*, are handled as annuals, they should be started into growth in winter (February in Michigan) in the north if a satisfactory blooming season is expected the first year; planted outdoors at the usual spring sowing time, usually April here, they give little bloom the first year, but make up for it the second season. Handled either way, they are splendid items for the neighborhood grower, the self-colored doubles, such as the orange-scarlet Lucifer and the white Snowdrift, and the clear-colored singles, of which Salmon Queen is an example, being especially attractive. I have found that winter-sown stock grown along in flats, from which they are sold, makes a good product to meet present competitive prices.

Sweet Wivelsfield, the result of crossing *D. Allwoodii* and *D. barbatus*, the sweet william, is amenable to the same kind of treatment. It is, to my way of thinking, much inferior to the Chinese pinks as gar-

*More comments on the usefulness, propagation and culture of various herbaceous perennials of interest particularly to the neighborhood grower, tested and studied in recent seasons in the writer's nursery in northern Michigan.*

den plants, but publicity or qualities which are hidden from my dull vision have given them a popularity which commercial growers cannot afford to ignore.

The books say that *D. Delight* has as parents Sweet Wivelsfield and *D. Roysii*, which is in turn a truly perennial hybrid of *D. neglectus* and some garden pink. The books also call it a perennial, which it positively is not in my garden. Seeds planted in April here bloom throughout the summer and pass out of the picture after the first hard frost. I have been thinking lately that both my treatment and opinion of the plant were mistaken, because of the insistence of writers of books and seed catalogue copy that the plant is a hardy perennial, but a recent letter from a friend in England who has

grown *Delight* since its introduction says that it is best treated as a half-hardy annual even in that equable climate. That does not detract a thing from the value of the plant, however, for it has many good points in its favor when used as an annual.

Although I get a lot of pleasure out of the so-called annual carnations, they are scarcely entitled to the name of garden plant. And as these notes are primarily concerned with the latter, the carnations need no further mention.

## Schizopetalon Walkeri.

(February 28, 1941.) Speaking of annuals reminds me that the little South American crucifer, *Schizopetalon Walkeri*, does not get the attention warranted by its merits, which include a delightful fragrance which the night air brings out in full force. It would not interest the gardener who demands that all his plants be showy, for its rather small, creamy-white flowers with deeply cut petals (hence the generic name, which comes from two Greek words, meaning to cut and petal) are not at all spectacular. But the combination of those flowers, a foot-tall bush clothed

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For Year 1938 says, on page 84:

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in grayish leaves and a delightful fragrance makes an association that will intrigue the discerning gardener.

It is a native of the dry hot hillsides and sand dunes of Chile, and so it is admirably adapted to conditions in the eastern United States. Seeds may be sown directly where the plants are wanted, which would be the way to handle them cheaply in landscape work; if wanted for plant sales, they may be grown in the ordinary way and marketed from small pots.

#### **Lallemantia Canescens.**

(March 1, 1941.) When I first grew *Lallemantia canescens* ten years or more ago I little thought it would still be an unknown quantity in 1941. In the language of moderns, it has what it takes to get along in this world—a presentable appearance. Included in its make-up are as lovely clothing (intensely silvered foliage) as one could hope for and adornments of pretty blue flowers on 15-inch stems for a long time in summer. It has, in addition, a fine temperament, if it is given a dry sunny home, and then it requires no care from its owner. Unfortunately, however, it puts all its energy into one long blooming period, and many gardeners are unable to condone that behavior in any plant unless it is as indispensable as the foxgloves and Canterbury bells. One need not take its biennial nature too seriously, however, for it usually selfsows in sufficient quantity to maintain a planting. If you have room in your list for a plant of that nature or customers with a liking for them, you may find this labiate a profitable item to grow.

#### **Gypsophila and Lime.**

(March 1, 1941.) The natural conclusion, based on the indestructible nature of the plants, of one who has grown *Gypsophila paniculata* and *G. repens* would be that they would thrive in any well drained soil. I was therefore rather at a loss for an answer to an inquiry regarding their poor behavior in a Wisconsin nursery. In a final effort to solve the problem, I asked the owner, a beginner in plant growing, to have his soil tested. In a letter received last week, he reports that the test showed decided acidity, which he should have known because *Cornus*

*canadensis* grew well in it, and that two applications of lime on the baby's breath planting has brought it out of the sulks.

#### **Aubrietia Gloriana.**

(March 1, 1941.) After growing most of the named varieties of *aubrietia* in American trade, I do not hesitate to name variety *Gloriana* as the best of the lot. That opinion is based on its lovely shade of rose-pink, large flowers and floriferous nature. If you live in a section where *aubrietias* are popular or could be popularized (and that includes all sections where the soil is not too heavy for their comfort, I suppose), *Gloriana* should be a money-maker. It has to be grown from cuttings, of course, which is easily done by rooting new growths after the flowering period in an outdoor lath-shaded frame.

Like other named *aubrietias*, *Gloriana* cannot reproduce itself from seeds; unlike most named kinds it does, however, produce a large percentage of good seedlings, mostly in shades of pink and with large flowers. It is, in fact, one of the few named varieties that produce a sufficiently large number of good seedlings in shades of pink to make the grade above an ordinary mixture. In other words, one can grow seedlings from isolated *Gloriana* plants with the assurance that he will not

have to compete with the 15-cent kind sold in cut-rate establishments.

Incidentally, the new *Monarch* strain is in that class, too. Its color range is wide, indeed, and includes all the shades ordinarily seen in *aubrietia* and is especially rich in shades of blue and lavender.

#### **Pentstemon Garnet.**

(March 1, 1941.) As several correspondents have asked for an appraisal of the new *pentstemon*, *Garnet*, I shall try to the best of my ability and limited experience with the plant to make a report. I hope that all will remember that these notes are no more than an opinion based on brief acquaintance and may therefore be at variance with the facts, but they are given in all sincerity. In the first place, I doubt if the plant is hardy; certainly, it is not in northern Michigan, and I suspect that it will require careful handling even in

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6 to 10 ins., 3-yr., heavy field-grown	rate \$0.15
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3000 Azalea mollis. Seedlings.	
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9000 Taxus cuspidata, spreading. Cuttings.	
8 to 12 ins., 2-yr., tpi., field-gr.	.25
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the latitude of Chicago. Again, its growth habits will have to be taken into consideration when one is planning his propagating program, for it is a rapid grower, and spring-propagated plants will be far too large to handle by the following selling season. For example, I saw plants last October from early spring propagation that were close to two feet across. It makes me think that late summer propagation or, perhaps better yet, cuttings rooted in midwinter and grown along in 2½-inch rose pots would be necessary to secure plants small enough for spring retail sales. That the plant will be short-lived even when hardy is no more than a conjecture on my part, but it has all the earmarks of that kind of beard-tongue.

In the face of all the foregoing, the plant definitely has merit, including a long season of production of its large garnet flowers. That makes it a good garden ornament, and the ability of the cut stems to stand up well in water gives it value as a cutting item throughout the summer.

**Dianthus Little Joe.**

(March 1, 1941.) It is gratifying to see from the spring catalogues that *Dianthus Little Joe* is becoming known. I have thought for several years that it would be impossible to keep so splendid a plant down, but it has been so long catching on that it was natural to suppose it had either developed undesirable traits in other nurseries or that my judgment was at fault. Judging from the way local buyers here picked it up as rapidly as it was propagated, it was hard to see, however, how it could indefinitely escape recognition. Large single crimson flowers on 6-inch to 8-inch stems, over tufts of blue foliage, throughout the summer will surely attract the attention of your customers. I notice from the catalogues, too, that the retail price is still maintained at 50 cents, which leads me to think that others find it not easy to grow from cuttings. It does best for me when brought indoors in late winter and succulent growths are rubbed off with a heel.

**Dianthus Inchmery.**

(March 1, 1941.) Speaking of pinks reminds me that neighborhood growers will likely find the new hybrid *Inchmery* of value in their

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<i>Acer palmatum</i> , large seeded type ..	.70	2.50
" <i>saccharum</i> , northern seed ..	.65	2.25
<i>Amelanchier canadensis</i> , d.b. ....	.65	2.35
<i>Benzoïn aestivale</i> .....	.35	1.25
<i>Berberis thunbergii</i> , c.a. ....	.65	2.25
<i>Caragana arborea</i> .....	.50	1.75
<i>Celastrus scandens</i> , c.a. ....	.75	2.75
<i>Cercis canadensis</i> .....	.55	1.85
<i>Chionanthus virginica</i> , c.a. ....	.65	2.25
<i>Corylus avellana</i> .....	.25	.85
<i>Crataegus mollis</i> , c.a. ....	.50	1.75
<i>Cupressus arizonica</i> .....	.90	3.25
" <i>macrocarpa</i> .....	.85	3.00
<i>Cydonia japonica</i> , c.a. ....	.90	3.25
" <i>japonica pygmaea</i> .....	.50	1.00
<i>Daphne mezereum</i> .....	1.50	5.50
<i>Elaeagnus angustifolia</i> , d.b. ....	.25	.85
<i>Eucalyptus</i> —varieties on request ..		
<i>Eunymus americanus</i> , c.a. ....	.45	1.60
<i>Exochorda grandiflora</i> .....	.65	2.40
<i>Fraxinus americana</i> .....	.25	.75
" <i>lanceolata</i> .....	.25	.75
<i>Ginkgo biloba</i> .....	.25	.85
<i>Gleditsia triacanthos</i> .....	.30	1.00
<i>Grevillea robusta</i> .....	2.10	7.50
<i>Halesia tetraptera</i> .....	.35	1.25
<i>Hamamelis virginiana</i> .....	.60	2.10
<i>Ilex verticillata</i> , d.b. ....	.35	1.25
<i>Juglans cinerea</i> , dried .....	.25	.85
" <i>nigra</i> , hulled .....	.25	.85
<i>Juniperus chinensis</i> , c.a. ....	.75	2.50
" <i>horizontalis</i> , d.b. ....	.65	2.25
" <i>virginiana</i> , d.b. ....	.45	1.50
<i>Larix leptolepis</i> .....	1.25	4.50
<i>Liriodendron tulipifera</i> .....	.25	.75
<i>Magnolia glauca</i> , c.a. ....	.70	2.50
<i>Malus coronaria</i> , c.a. ....	1.25	4.50
<i>Morus alba</i> tat., c.a. ....	.45	1.60
<i>Photinia serrulata</i> .....	1.05	3.75
<i>Picea engelmannii</i> .....	.75	2.60
" <i>mariana</i> .....	1.45	5.25
" <i>pungens</i> .....	.65	2.30
<i>Pinus canariensis</i> .....	.65	2.25
" <i>caribaea</i> .....	.70	2.50
" <i>echinata</i> .....	1.25	4.50
" <i>edulis</i> .....	.45	1.60
" <i>flexilis</i> .....	.90	3.25
" <i>laevis</i> .....	.70	2.40
" <i>murrayana</i> .....	1.40	5.00
" <i>nigra</i> .....	1.70	6.00
" <i>palustris</i> .....	.45	1.50
" <i>pinaster</i> .....	.65	2.00
" <i>ponderosa</i> .....	.50	1.75
" <i>radiata</i> .....	.65	2.25
" <i>resinosa</i> .....	1.55	5.50
" <i>strobus</i> .....	.50	1.75
" <i>sylvestris</i> .....	2.00	7.50
" <i>taeda</i> .....	.65	2.25
" <i>thunbergii</i> .....	.30	1.75
" <i>virginiana</i> .....	1.65	6.00
<i>Plumbago capensis</i> , blue, per 1000 seeds, \$3.30.		
<i>Rhamnus cathartica</i> , d.b. ....	.35	1.25
<i>Rhus canadensis</i> , d.b. ....	.35	1.25
<i>Robinia pseudoacacia</i> .....	.30	1.00
<i>Rosa blanda</i> , dried hips .....	.40	1.40
<i>Scallopitya verticillata</i> .....	.70	2.50
<i>Sequoia gigantea</i> .....	2.10	7.50
<i>Shepherdia argentea</i> , d.b. ....	.55	1.85
<i>Sorbus americana</i> , d.b. ....	.40	1.35
<i>Stewartia pentagyna</i> , c.a. ....	1.10	4.00
<i>Taxus cuspidata</i> .....	.60	2.00
<i>Tilia americana</i> .....	.25	.85
<i>Tsuga canadensis</i> .....	1.65	6.00
<i>Viburnum acerifolium</i> , d.b. ....	.35	1.25
" <i>dentatum</i> , d.b. ....	.40	1.40
" <i>lantana</i> , d.b. ....	.50	1.80
<i>Wisteria multi-juga</i> , blue .....	.45	1.50
" <i>sinensis</i> , blue .....	.25	.75
" <i>sinensis</i> , white .....	.45	1.50
<i>Zelkova serrata</i> .....	.25	.80

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**HERBST BROTHERS**

92 WARREN STREET  
NEW YORK, N. Y.



work. It has not the long flowering period of Little Joe, but its large double flowers, fringed and soft pink in color, make a most entrancing picture and one that gardeners find it hard to ignore. As it grows here, it makes lovely tufts of gray foliage and flowering stems six inches tall.

#### Propagating Primulas.

(March 3, 1941.) The increased interest in primulas calls for a few words on their propagation. Seedage, being quite the same as in ordinary hardy plants, needs no comment except that one should make sure that the seeds are fresh. Nor does division require attention, because that process is known to all growers. But a few special methods may help to overcome difficulties with some species.

For instance, species with fleshy roots, of which *P. bathangensis* is an example, are easily propagated from root cuttings. These cuttings are handled in the same way as gaillardias and other garden plants ordinarily grown from pieces of the root. Pieces two inches long are planted in flats of light soil, preferably a sandy mixture, kept fairly moist and in gentle heat until ready to be pricked out into small pots.

Some kinds, including most of the difficult petiolaris section, may also be grown from leaf cuttings. As my experience with the petiolaris has been confined to *P. Winteri* and that with little success so far, I cannot say much about this method. It is, however, just like leaf cuttings of heuchera in that it is necessary to get the dormant bud in the leaf axil, after which the usual procedure is followed, including the insertion of the leaf in a sandy compost and gentle heat.

As many species of the candelabra section hybridize freely when grown in gardens, one seldom knows what will be the result of growing these kinds from seeds. That interbreeding has given rise to several lovely hybrid forms which must be propagated by vegetative means, a task that is usually taken care of by division of the clumps immediately following the flowering period. More rapid multiplication may, however, often be obtained from stem cuttings. When one finds a plant with what botanists call adventitious leaves on

the flower stem, the stem should be cut away just above the leaves, so they will develop into a tuft. Then these should be cut off by severing the stem below the tuft. Planted in pots of good soil and placed in a shaded frame, they will soon form roots and grow into good plants.

#### NEW PLANT PATENTS.

The following plant patents were issued during February, according to Rummler, Rummler & Davis, Chicago patent lawyers:

No. 458. Rose. Josephine D. Brownell, Little Compton, R. I. A hardy hybrid *Rosa wichuraiana* climbing rose variety, characterized by its vigorous branching growth, its glossy green foliage, its hybrid tea type of flower and cluster, the pleasing fragrance and double petalage of its flowers, with color and form, the color shades combining into a self color of nearly spectrum orange.

No. 459. Rose. Josephine D. Brownell, Little Compton, R. I. A rose variety, characterized by its new and distinctive constitution, including resistance to winter injury, its intensity and continuity of florescence, its pleasing fragrance, its long keeping character of the color of its petals and the form of its petals and the form of the flower, variable within certain definite limits, its character of long holding that form, its color varying from nearly garnet to lilac pink, all in association with its habit of branching from bloom stems and from the base and blooming in the hybrid tea manner and its freedom from defoliation by black spot during the growing season.

No. 460. Barberry plant. Bonne Ruys, Dedemsvaart, Netherlands, assignor to E. D. Smith & Sons, Ltd., Winona, Ontario, Canada. A new and distinct variety

of barberry characterized particularly by its coarse, free-branching, spreading and robust habit of growth; the shape and size of its leaves and their attractive color, and by its hardness.

No. 461. Rose plant. Walter Irwin Johnston, Portadown, Ireland, assignor to Jackson & Perkins Co., Newark, N. Y. A new and distinct variety of hybrid tea rose plant characterized as to novelty by its compact bush form, freedom of bloom, the distinctive color combination of both the bud and developed flowers and color and texture of the foliage.

#### TWIN CITIES MEETING.

The final winter meeting of the Twin Cities Nurserymen's Association was held at Wade's restaurant, Minneapolis, Minn., March 19, with Grant E. Perl, president, in the chair.

One of the items that provoked much discussion was the extent to which customers are entitled to free plans. Everyone present had something to offer on the question of a slight charge for small plans, but, while all agreed upon the principle, few were willing to endanger business by making charges as suggested. A committee was appointed to report upon the suggestions in early autumn.

Advertising came in for much discussion. Forms suggested were radio, which was voted expensive and not worth while; newspaper, considered of little avail unless prominently displayed and continuous, and signs on trucks, which found favor with

### One-Year Seedlings

All Sizes

Russian Olives  
Russian Mulberry  
Catalpa Speciosa  
Osage Orange

Priced right

### THE WINFIELD NURSERIES

Winfield, Kans.

### Platanoides — Norway Maples

	Per 1000
6 to 12 inches .....	\$ 7.50
12 to 18 inches .....	12.00
18 to 24 inches .....	18.00
2 to 3 feet .....	35.00
3 to 4 feet .....	50.00
4 to 5 feet, trans. ....	\$15.00 per 100
25% cash with order or 10% discount for full cash. Those who want to trade may do so.	

#### STATE ROAD NURSERY

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### FLOWERING CRABS

Field-grown, bushy plants.

White—*Micromalus, Toringoides, Arnoldiana, Zumi Calocarpa, Snowbank, Siberian.*

Pink—*Peachblow, Scheldeckeri, Atrosanguinea, Prunifolia Rinkl, Floribunda, Spectabilis, Theliera, Ioensis, Coronaria.*

Red—*Niedzwetzkyana, Atropurpurea, Elyi, Hopa.*

	Per 100
3 to 4 ft. ....	\$27.00
4 to 5 ft. ....	33.00
5 to 6 ft. ....	40.00

Larger sizes available in all of these varieties. Write for General Wholesale List.

#### CHARLES FIORE NURSERIES

Prairie View, Ill.

Red Lake Red Currant, 2-yr., 1-yr.

Poorman Gooseberry.

Hybrid Lilacs, on own roots, twice trans., 3 to 8 ft.

American and Oriental Arbor-vitae, sheared, trans., 5 to 8 ft.

Bearing Size Dwarf Pears, 4 to 6 ft.

Specimens various items for landscape planting.

#### SAMUEL FRASER

Geneseo, N. Y.

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fectly shaped; transplanted.

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9 to 12 ins. .... 10 100  
12 to 15 ins. .... \$4.00 \$35.00  
Transplants  
\$5.00 per 100, \$40.00 per 1000.  
Boxing at cost.

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U.S. Route 62, 18 miles south of Buffalo

everyone. The idea of an emblem to be displayed in catalogues and on stationery and, if possible, to be incorporated in the truck signs met approval, but some time was spent in discussion as to the type and possible cost. A committee was appointed to act on this matter. The underlying idea was to accustom the public with the fact that any firm displaying the emblem adopted was bound by the code of ethics of the association, sold dependable stock and could be relied upon for fair prices and fair dealing.

Louis Sando, University Farm, assistant superintendent of the horticulture building at the state fair, brought up the question of the association's display at the coming fair, in August. He reported that the superintendent, William Lindemann, New Ulm, was anxious to support the association in every way and had promised a larger space than that occupied a year ago. The committee appointed last year was authorized to go ahead and make suitable plans.

Rejuvenation of old plantings was suggested as one method of securing business. Although an enormous amount of building is going on, new owners frequently find that landscaping the home completely is more than they can immediately afford, and only a few trees or shrubs are planted. One obstacle to the rejuvenation proposal is that homeowners do not often permit the cutting down or removal of plant material with which they, the owners, have grown up. This appeared to be the consensus of the majority of those present.

## NORTH DAKOTA CONTRACT.

Sealed proposals will be received until 9:30 a.m., April 4, by the state highway department, Bismarck, N. D., for federal aid projects, including approximately twenty-five miles of seeding on U. S. highway 2 in McHenry county, involving approximately 324 acres seeding of type B.

THE Bassi Freres Realty Co., Inc., florist and landscape gardener, with main offices in Larchmont, N. Y., and a retail store at 478 Main street, New Rochelle, N. Y., has filed a voluntary proceeding under chapter XI of the Chandler act, listing liabilities of \$52,472 and assets of \$34,522.

## GRAFTED STOCK

From 2¼-in. Pots

Ready for delivery about  
May 1, 1941

	Per 10	Per 100
<i>Acer palmatum atropurpureum</i> .....	\$3.00	\$25.00
<i>Acer dissectum atropurpureum</i> .....	3.00	25.00
<i>Chamaecyparis obtusa gracilis nana compacta</i> .....	3.00	25.00
<i>Cornus florida rubra</i> .....	3.00	25.00
<i>Fagus sylvatica pendula</i> ....	3.00	25.00
<i>Fagus sylvatica Riversii</i> ....	3.00	25.00
<i>Ilex opaca femina</i> .....	2.75	25.00
<i>Ilex opaca Howardii</i> .....	2.75	25.00
<i>Juniperus columnaris glauca</i> .....	2.75	25.00
<i>Juniperus columnaris viridis</i> .....	2.75	25.00
<i>Juniperus chinensis neoborealis</i> .....	2.75	25.00
<i>Juniperus chinensis Sargentii</i> .....	2.75	25.00
<i>Juniperus chinensis Sargentii glauca</i> .....	2.75	25.00
<i>Juniperus scopulorum glauca</i> .....	2.75	25.00
<i>Juniperus squamata</i> .....	2.75	25.00
<i>Juniperus squamata argentea variegata</i> .....	2.75	25.00
<i>Juniperus squamata Meyerii</i> .....	2.75	25.00
<i>Juniperus virginiana Burkii</i> .....	2.75	25.00
<i>Juniperus virginiana Canadensis</i> .....	2.75	25.00
<i>Juniperus virginiana elegantissima</i> .....	2.75	25.00
<i>Juniperus virginiana glauca</i> .....	2.75	25.00
<i>Juniperus virginiana globosa</i> .....	2.75	25.00
<i>Juniperus virginiana Keteleeri</i> .....	2.75	25.00
<i>Juniperus virginiana Kosteri</i> .....	2.75	25.00
<i>Juniperus virginiana Schottii</i> .....	2.75	25.00
<i>Juniperus virginiana pendula</i> .....	2.75	25.00
<i>Juniperus virginiana pyramidiformis</i> .....	2.75	25.00
<i>Juniperus virginiana pyramidalis</i> .....	2.75	25.00
<i>Juniperus sabina Von Ehron</i> .....	2.75	25.00
<i>Pinus Cembra</i> .....	2.75	25.00
<i>Thuja orientalis aurea nana</i> .....	2.00	18.00
<i>Thuja orientalis conspicua</i> .....	2.00	18.00
<i>Thuja orientalis elegantissima</i> .....	2.00	18.00

## HESS' NURSERIES

P. O. Box 52

Mountain View, New Jersey

# Digging and Storing Nursery Stock

By Floyd A. Oatman

Because of the long winters that we have in New England, it is our belief that it is quite necessary for nurserymen here to dig and store their stock through the winter in order to save valuable time in the spring of the year. We have been following this practice for over thirty years with good success. There are always opportunities for improvement, and we are continually trying to discover them.

At the present time, we generally start our digging for the cellars about the middle of October, digging the vines first, starting with the varieties that have the least leaves on to avoid unnecessary stripping at the time of grading. We then shift to the shrubs, taking them as much as possible in similar order.

This stock is all run under with a one-man shrub digger powered by a model 14 Farmall tractor. With this type of digger and tractor, we are able to run under all varieties of shrubs up to four to five feet high except lilacs and plants that have heavy branches, of which 3-foot stock is the largest we can run under. This one-man shrub digger is equipped with a U-shaped blade, which cuts the roots on both sides and on the bottom at once, loosening the soil around the roots so that they are easy to pull and shake free from soil regardless of the type of soil.

After our shrubs are dug, we start on our lining-out and seedling stock. The seedling stock that is grown in beds has to be dug by hand, but that grown in rows is dug the same as the lining-out stock, by running under the plants with the digger, which we equip with a narrower blade, but of the same shape as that for shrubs. We next dig our roses and then the privet, leaving the fruit trees and flowering trees that we wish to take into storage until the last.

We use a Fegley digger on the fruit stock, with a tractor for power. This digger cuts the roots on the bottom and one side. The cutting of the roots on the other side is done by hand. We have found we are able to get a better root system by using this method. We also grade all fruit stock in the field as it is dug.

Second in the series of talks on nursery management and operations in the day's educational program during the recent New England association convention, presented by the secretary of Adams Nursery, Inc., Springfield, Mass.

After we have dug all the deciduous shrubs and trees that we wish to take into storage for the winter, rhododendrons, kalmias, leucothoe and pieris may be dug and stored inside for the winter. Such plants will come out in the spring with perfect buds and a rich green foliage, which is a wonderful help in retail selling or for use in landscape work. These plants are dug with a ball of soil and stored in a building with a dirt floor or on moist sawdust.

If the ground is still open in the fall, we dig some Norway and rock maples and American elms, in the different sizes, for spring trade. If these trees are dug and then heeled right back in the same hole, so that the roots are not exposed to the air, they will winter through without any trouble, and this will help to save a lot

of very valuable time in the spring of the year.

As the shrubs come into the storage shed from the field, they are stacked with the roots out, but in such a way that the tops will overlap the roots. By stacking in this method, you do not have to worry about the leaves' heating, and with regular watering the leaves will rot readily, so that when you come to grade this stock there is little time lost in stripping the foliage.

Privet can be stacked in the same way, with the exception of California and Ibolium, which are stacked with the roots inside and all tops outside in order to avoid heating.

The lining-out stock that is heavily foliated is stood upright, one layer above another, to avoid heating.

We have found that the best way to store coarse-rooted flowering trees that are not dug with a ball is to heel them in as soon as they come into the cellar. If you do not have available space at that time, the bundles should be wrapped in wet moss after the roots have been well puddled. These trees should be taken out of the cellar and heeled in outdoors as early as possible in the spring.

We have found that the best way to

## no LEASE or LEND plan

However, at the prices quoted in our New Spring 1941 Lining-out Stock list, nurserymen everywhere are offered direct aid in procuring stock to line out. Unusually complete as to varieties and sizes for this time of year, this list should be in your possession before you place your order. Write today.

**NAPERVILLE NURSERIES**  
NAPERVILLE ILLINOIS



## "V" PEACHES

Canada's famous contribution  
to the Peach Industry —

**BUY them in CANADA**

**VALIANT** — Budded from  
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**VETERAN** — Leaf Identification  
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**Montmorency Cherries**  
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**Dwarf Apples, etc.**

**Evergreens, Large Assortment**  
**American Elm, all sizes, 6 to**  
**8 ft. to 4 to 5-in. caliper—in carlots.**

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IN CANADA — and returns  
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**WINONA, ONT. — CANADA**



## LINERS

From our general list of catalogued liners.  
Send for copy. Per 100 Per 1000

<b>Abies Douglasii</b>		
2-yr., S., 3 to 6 ins.	\$ 2.25	\$ 17.50
4-yr., T., 4 to 8 ins.	5.00	50.00
5-yr., T., 8 to 12 ins.	9.00	90.00
<b>Acer dasycarpum</b>		
1-yr., S., 6 to 12 ins.	.75	5.00
1-yr., S., 12 to 18 ins.	1.50	10.00
<b>Acer saccharum</b> , T., 3 to 4 ft.	12.00	100.00
<b>Aronia arbutifolia</b> , T., 8 to 15 ins.	3.50	25.00
<b>Azalea mollis</b> , T., 4 to 6 ins.	7.50	60.00
<b>Berberis Thunbergii</b>		
Upright strain from seed.		
2 to 5 ins.	1.00	6.00
<b>Berberis Thunbergii atropurpurea</b>		
1 to 3 ins., 5000, \$17.50	.75	4.50
3 to 6 ins., 5000, 32.50	1.25	7.50
Cover for 1942. Larger grades all sold.		Poor seed crop 1940.
<b>Castanea mollissima</b>		
1-yr., S., 6 to 12 ins.	7.00	60.00
<b>Cercidiphyllum japonicum</b>		
1-yr., S., 8 to 12 ins.	3.00	20.00
<b>Cornus florida rubra</b>		
T., 12 to 18 ins.	30.00	250.00
T., 18 to 24 ins.	40.00	350.00
T., 2 to 3 ft.	50.00	450.00
<b>Cornus sibirica alba</b>		
1-yr., S., 4 to 6 ins.	1.50	10.00
1-yr., S., 8 to 12 ins.	2.00	15.00
<b>Cornus sanguinea viridissima</b>		
1-yr., S., 8 to 12 ins.	1.50	10.00
1-yr., S., 12 to 18 ins.	2.00	15.00
<b>Cornus stolonifera</b> , 8 to 12 ins.	2.00	15.00
<b>Daphne Cneorum</b>		
1-yr., T., 6 to 9 ins.	10.00	90.00
<b>Eleagnus argentea</b> , T., 8 to 15 ins.	5.00	40.00
<b>Eumyrtus yodensis</b> , S., 4 to 8 ins.	2.00	15.00
<b>Forsythia suspensa</b>		
Heavy rooted, 2-yr., 10 to 15 ins.	2.00	15.00
<b>Ginkgo biloba</b> , S., 13 to 7 ins.	5.00	40.00
<b>Ilex verticillata</b> , S., 3 to 6 ins.	2.00	15.00
<b>Juniperus exelsa striata</b>		
T., 4 to 6 ins.	10.00	85.00
T., 6 to 10 ins.	14.00	125.00
T.T., 6 to 12 ins.	17.50	150.00
<b>Juniperus Pfitzeriana</b>		
2 1/2-in. pots	10.00	85.00
T., 8 to 12 ins.	13.50	120.00
T.T., 8 to 12 ins.	17.50	160.00
T., 12 to 15 ins.	20.00	180.00
T.T., 12 to 15 ins.	25.00	220.00
<b>Juniperus Sabina tamaricifolia</b>		
T., 6 to 8 ins.	14.00	125.00
T., 8 to 12 ins.	17.50	160.00
<b>Juniperus virginiana</b>		
1-yr., S., 2 to 4 ins.	2.25	17.50
<b>Mahonia Aquifolium</b>		
T., 6 to 9 ins.	7.00	
<b>Photinia villosa</b> , S., 4 to 8 ins.	1.75	12.50
<b>Picea pungens</b>		
2-yr., S., 4 to 6 ins.	2.50	20.00
<b>Pinus densiflora</b>		
4-yr., T., 12 to 18 ins.	4.50	35.00
<b>Pinus ponderosa</b>		
3-yr., S., 4 to 8 ins.	2.50	20.00
<b>Pinus resinosa</b>		
2-yr., S., 4 to 8 ins., 5000, \$55.00	1.75	12.50
4-yr., T., 6 to 12 ins.	4.00	30.00
4-yr., T., 12 to 15 ins.	5.50	45.00
<b>Pinus Strobus</b>		
2-yr., S., 4 to 7 ins., 5000, \$67.50	2.00	15.00
<b>Quercus palustris</b> , T., 4 to 6 ft.	27.50	250.00
<b>Quercus velutina</b> , T., 3 to 5 ft.	25.00	225.00
<b>Quercus rubra</b> , T., 3 to 5 ft.	25.00	225.00
<b>Rhamnus Frangula</b>		
1-yr., S., 4 to 8 ins.	1.50	10.00
<b>Sorbus americana</b>		
T., 5 to 6 ft.	2.00	160.00
T., 6 to 8 ft.	3.00	250.00
<b>Spiraea Vanhouttei</b> , 12 to 18 ins.	2.50	20.00
<b>Taxus cuspidata</b> , Spreading		
2-yr., T., 6 to 10 ins.	14.00	125.00
4-yr., T.T., 8 to 12 ins.	25.00	225.00
<b>Thuja occidentalis</b>		
3-yr., S., 4 to 8 ins., 5000, \$80.00	2.25	17.50

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FAIRVIEW, PA.

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Enkianthus, 4 to 7 ft.  
Juniperus Rigida, 5 to 6 ft. and 8 to 10 ft.  
Azalea Vaseyi, 2 to 4 ft.  
Taxodium Distichum, 8 to 10 ft.  
Yew, 14 to 16 ft. spread.

Brimfield Gardens Nursery, R. Marshall, Jr.  
245 Brimfield Rd. Wethersfield, Conn.

keep roses through the winter is to stack them with the tops headed against an outside wall of the storage cellar and the roots away from the wall, burying the tops with dry sawdust and putting wet sawdust on the roots. Roses stacked in this manner are accessible at any time to fill orders. The tops will not show any signs of mildew or fungus, but will come out as fresh as when they were dug in the fall.

The shrubs, after they are graded, are stacked in racks built from the floor to the ceiling in the storage cellar. The roots on each layer of plants are given a light covering of shingle hair. This is a great improvement over the old way of stacking in bins and covering the roots with sand, which added a great deal of labor to the storage of plants, as well as to the filling of orders in the spring, for the lower you got in the bins the harder it was to pull out the bundles. The shrubs are arranged alphabetically as they are listed in our catalogue. It is not any more work to stack this way, and it saves a great deal of time in the spring in the filling of orders.

Privet is stacked close together, with wet material on about every five layers of plants. If not too much packing material is used on the privet, it will not start to grow in the cellars so early in the spring, and you will have dormant plants for a much longer planting and selling period.

The lining-out stock is stored much the same way, with wet sawdust and peat moss used for packing material. If we think that the lining-out stock which we have reserved for ourselves is going to start to grow before we shall be able to get it into the ground, we pack it in paper-lined cases and place them in cold storage at about 32 degrees temperature. You can do this with almost any type of shrub and be able to plant it as late as July with an exceedingly small percentage of loss under normal weather conditions.

Our storage cellars, built of cement blocks, are not entirely frostproof; therefore we have them piped for steam from a separate boiler, which we start up in extremely cold weather so that at no time do we allow the temperature in the cellar to go below 33 degrees.

It is our belief that nursery stock properly stored is just as good as freshly dug stock and makes a great saving of time in the spring.

Two years from now you can realize a handsome return if you take advantage of these low prices and plant all you can.

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Variety and Size Per 1000

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<b>Cornus Amomum</b> , 18 to 24 ins.	20.00
<b>Cornus alba sibirica</b> , 6 to 12 ins.	15.00
<b>Cornus alba sibirica</b> , 12 to 18 ins.	18.00
<b>Cornus stolonifera</b> , 12 to 18 ins.	20.00
<b>Forsythia Fortunei</b> , 12 to 18 ins.	20.00
<b>Forsythia Fortunei</b> , 18 to 24 ins.	25.00
<b>Forsythia Intermedia</b> , 12 to 18 ins.	18.00
<b>Forsythia Intermedia</b> , 18 to 24 ins.	25.00
<b>Forsythia spectabilis</b> , 12 to 18 ins.	25.00
<b>Forsythia spectabilis</b> , 18 to 24 ins.	30.00
<b>Ligustrum Iboolum</b> , lining-out	10.00
<b>Ligustrum Iboolum</b> , 12 to 18 ins., 8 br.	15.00
<b>Ligustrum Ovalifolium</b> , 6 to 12 ins.	10.00
<b>Ligustrum Iboia</b> , 10 to 12 ins.	15.00
<b>Ligustrum Iboia</b> , 12 to 18 ins.	20.00
<b>Lonicera tatarica alba</b> , 12 to 18 ins.	20.00
<b>Lonicera tatarica alba</b> , 18 to 24 ins.	27.50
<b>Lonicera bella albidula</b> , 12 to 18 ins.	20.00
<b>Lonicera bella albidula</b> , 18 to 24 ins.	25.00
<b>Lonicera grand. rosea</b> , 12 to 18 ins.	20.00
<b>Lonicera grand. rosea</b> , 18 to 24 ins.	25.00
<b>Lonicera Ruprechtiana</b> , 12 to 18 ins.	25.00
<b>Lonicera Ruprechtiana</b> , 18 to 24 ins.	30.00
<b>Lonicera lat. rosea</b> , 18 to 24 ins.	20.00
<b>Lonicera Xystostemum</b> , 12 to 18 ins.	30.00
<b>Philadelphus coronarius</b> , 6 to 12 ins.	20.00
<b>Philadelphus coronarius</b> , 12 to 18 ins.	25.00
<b>Philadelphus coronarius</b> , 18 to 24 ins.	30.00
<b>Philadelphus grandiflorus</b> , 18 to 24 ins.	30.00
<b>Symphoricarpos Chenaultii</b> , 6 to 12 ins.	25.00
<b>Symphoricarpos Chenaultii</b> , 12 to 24 ins.	30.00
<b>Symphoricarpos racemosus</b> , 6 to 12 ins.	16.00
<b>Symphoricarpos vulgaris</b> , 12 to 18 ins.	15.00
<b>Symphoricarpos vulgaris</b> , 18 to 24 ins.	20.00
<b>Poplar Carolina</b> , 2 to 4 ft.	25.00
<b>Poplar Meyer</b> , 1 to 2 ft.	25.00
<b>Poplar Lombardy</b> , 2 to 4 ft.	25.00
<b>Poplar Lombardy</b> , 4 to 6 ft.	30.00
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<b>Salix Thunbergii</b> , 2 to 4 ft.	20.00
<b>Salix vitellina</b> , 2 to 4 ft.	20.00
<b>Salix vitellina</b> , 4 to 6 ft.	25.00

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Variety and Size Per 1000

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<b>Berberis Thunbergii</b> , 1-yr., 6 to 9 ins.	5.00
<b>Berberis Thunbergii</b> , 2-yr., 6 to 9 ins.	9.00
<b>Berberis Thunbergii</b> , 3 to 6 ins.	5.00
<b>Calycanthus floridus</b> , 6 to 9 ins.	20.00
<b>Celastrus orbiculatus</b> , 12 to 18 ins.	17.50
<b>Celastrus orbiculatus</b> , 18 to 24 ins.	20.00
<b>Celastrus scandens</b> , 3 to 6 ins.	12.00
<b>Cercidiphyllum japonicum</b> , pots	100.00
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<b>Cornus paniculata</b> , 4 to 8 ins.	12.00
<b>Cotoneaster divaricata</b> , 3 to 6 ins.	25.00
<b>Crateagus Oxyacantha</b> , 12 to 18 ins.	25.00
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<b>Desmodium</b> , 24 to 30 ins.	12.50
<b>Fraxinus americana</b> , 12 to 18 ins.	12.50
<b>Gleditsia triacanthos</b> , 12 to 18 ins.	12.50
<b>Ilex verticillata</b> , 4 to 8 ins.	20.00
<b>Photinia villosa</b> , 3 to 6 ins.	15.00
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100 of a variety will be supplied at 1000 rate

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INC.  
SPRINGFIELD, MASS.

# Diseases of Trees

By Leo R. Tebon

## SUPPLYING IRON TO CHLOROTIC PIN OAKS.

Although for years it has been known that the introduction of certain iron salts into the trunks of chlorotic trees would frequently cure the trees, it is only recently that the general method of iron treatment has received the attention of scientific tree men. Most recent of the contributions to this subject is a report by Dr. P. P. Pirone, of the New Jersey agricultural experiment station, presented in the December, 1940, number of the *Shade Tree*, organ of the New Jersey Federation of Shade Tree Commissioners.

Quickest response on the part of chlorotic trees, according to Dr. Pirone, can be obtained if the trees are sprayed while in leaf with a solution containing five pounds of ferrous sulphate and two pounds of soybean flour in 100 gallons of water. For best results, the spray should be applied in late spring or early summer, as the leaves are increasing in size, and application should be made in the afternoon to prevent too rapid drying of the iron solution. Although most quickly effective, this method is least lasting in its effect.

For trunk injection, Dr. Pirone finds a method hitherto not successful with other materials to be satisfactory. Using a 1/2-inch bit, he bores holes in the trunk to a depth of about two inches and somewhat tangential in direction, so as to remain in the sapwood, as well as pointing downward to prevent dripping along the outer face of the trunk. Into each of these holes he inserts a large or veterinary-size collodion capsule containing five grams of ferric phosphate. After insertion of the capsule, the hole is sealed with grafting wax. Pin oak trees so treated were of normal green color three months after the treatment.

Slower to produce an effect than either iron sprays or iron injections, but most lasting as a curative measure, is special treatment of the soil. Since chlorotic trees usually stand in sweet, or alkaline soil, the treatment is designed to acidify at least a part of the

Gleanings from recent reports of scientific research on infections of ornamental and fruit trees, summarized by the head of applied botany and plant pathology of the Illinois State Natural History Survey.

soil at the root level and to provide soluble iron salts in the acidified places.

Commonly a mixture of equal parts by weight of powdered sulphur and ferrous sulphate is used for soil treatment, and one pound of this mixture for each inch of trunk diameter is the usual dosage. The mixture is put into the soil through punch holes or augur holes, just as if it were a fertilizer; in fact, fertilizer can be applied effectively in the same punch holes immediately after the sulphur and iron salt mixture has been inserted.

A quicker response can be obtained from the soil treatment, according to Dr. Pirone's report, if the corrective mixture consists of powdered sulphur, aluminum sulphate and ferrous sulphate in proportions of 1/4-1/4-1/2 respectively.

## LINING-OUT STOCK

All choices, healthy stock.		
	Per 100	Per 1000
<i>Taxus Canadensis</i> , 4 to 6 ins., X.....	\$7.50	\$65.00
6 to 8 ins., X.....	8.50	75.00
<i>Taxus Canadensis Capitata</i> , 4 to 6 ins., X.....	7.50	65.00
<i>Mugo Pine</i> , 3 to 4 ins., X.....	5.00	.....
<i>Chinese Arb.</i> , 1-yr. adigs., X.....	1.00	8.00
<i>Concolor Fir</i> , 4 to 6 ins., X.....	7.50	.....
<i>Scotch Pine</i> , 6 to 8 ins., X.....	5.50	.....
10 to 12 ins., X.....	7.50	.....
<i>Jap. Barberry</i> , 1-yr., S., 6 to 8 ins., X.....	1.25	8.00
1-yr., S., 8 to 14 ins., X.....	1.50	12.00
<i>Lombardy Poplar</i> , 4 to 5 ft., ..... 5.00	40.00	.....
5 to 6 ft., ..... 15.00	100.00	.....
6 to 8 ft., ..... 20.00	150.00	.....
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<i>Lawson Cypress</i> , Oregon, 5 lbs., ..... 2.50	
<i>Canada Hemlock</i> , Ontario, ..... 5.50	
<i>Canada Hemlock</i> , Maine, ..... 6.00	
<i>Balsam Fir</i> , Ontario, ..... 2.25	
<i>Balsam Fir</i> , New England, ..... 1.75	
<i>Blue Spruce</i> , Common, ..... 2.35	
<i>Blue Spruce</i> , Hand-picked Blue, ..... 3.50	
<i>Longleaf Pine</i> , N. Carolina, ..... 1.00	
<i>White Pine</i> , Lake States, ..... 1.50	
<i>Red Pine</i> , Lake States, ..... 5.00	
<i>Common Juniper</i> , Montana, ..... 1.50	
<i>Horizontalis Juniper</i> , Montana, ..... 1.50	
<i>Scopulorum Juniper</i> , Montana, ..... 1.00	
<i>Grandis Fir</i> , N. California, ..... 2.50	
<i>Slash Pine</i> , Georgia, ..... 2.00	
<i>Concolor Fir</i> , Colorado, ..... .75	
<i>Ponderosa Pine</i> , Colorado, ..... .75	
RICHARD V. BAUSER, Allentown, Pa.	

From the writer's own experience with treatment of chlorotic trees, both immediate and lasting results can be expected from a combination of the injection and soil correction treatments, to the greater satisfaction of the client.

L. R. T.

## CAN ELMS RECOVER FROM THE DUTCH ELM DISEASE?

That Dutch elm disease infection might persist in individual trees for a period of years without making its presence visible externally is a theory that has been advanced from time to time to explain the delayed finding of cases of the disease. But that infected trees can actually recover and continue thereafter to grow as healthy trees comes to light only now in a brief report made by S. J. Smucker, of the Dutch elm disease laboratory, at Morristown, N. J.

Having observed that American elms, if not completely killed during the season following their artificial inoculation with the Dutch elm disease fungus, often failed the following season to show any external signs of the disease, Dr. Smucker gave consideration to the possibility that they had actually overcome the infection. He selected for purposes of observation a group of 112 young American elms which had been artificially infected with the Dutch elm disease in 1936 and shortly after had developed

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Out of 2 1/4-in. rose pots; 10 to 12-in. stock.

	Per 25	Per 100
<i>Biota conspicua aurea</i> .....	\$5.75	\$20.00
<i>Juniperus columnaris</i> , blue.....	6.90	25.00
<i>Juniperus Canertii</i> .....	6.90	25.00
<i>Juniperus Burkill</i> .....	6.90	25.00
<i>Juniperus Keteleeri</i> .....	6.50	22.50
<i>Juniperus glauca</i> .....	6.50	22.50
<i>Juniperus Sabina</i> Von Ehron.....	6.25	22.00
<i>Blood Leaf Jap. Maple</i> .....	6.90	25.00

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Hardy Chrysanthemums, many varieties.  
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Gallardia, Sun God, Ruby, Mr. Sherbrooke and Monarch Strain.  
Penstemon, Garnet.  
Veronica, Blue Spire.

We can supply all these varieties in standard size for immediate resale, and in small sizes for lining out or potting. Let us quote you on your needs.

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4 to 5 ft., trans. .... \$0.08  
5 to 6 ft., trans. .... .10  
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8 to 10 ft., 1 to 1 1/4-in., trans. .... .20  
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**LOMBARDY POPLAR**

5 to 6 ft., trans. .... \$0.10  
6 to 8 ft., trans. .... .15  
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5 to 6 ft., trans. .... .10  
6 to 8 ft., trans. .... .15

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15 to 18 ins., tr. .... \$0.04  
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12 ins. up, l.o. .... .03  
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pronounced symptoms, but which in 1937 had shown no symptoms.

Yearly, then, for four years he made careful laboratory tests of every one of these trees, attempting to recover from them the Dutch elm disease fungus with which they had been infected. Persistently, when in the first test any tree failed to yield the fungus, he resampled it, making additional tests of the trunk, roots and crown.

Although at first, i.e., in 1937, he was successful in recapturing the Dutch elm disease fungus from every one of his 112 trees, he found that in each succeeding year a steady decrease occurred in the number of trees that would yield the fungus for him. Thus in 1938 the number of trees yielding the fungus was 110; in 1939, 95, and in 1940, 82.

Since in 1937 all of the 112 trees being used for observation appeared outwardly to have recovered from infection and thereafter seemed to grow normally and as well as similar noninfected trees, the laboratory tests indicate that actual recovery occurred in two per cent of the trees after two years, in an additional thirteen per cent after three years and in still another twelve per cent after four years, or a total of twenty-seven per cent of the trees in the 4-year period.

That such recovery was not accompanied by the acquisition of a protective immunity to the Dutch elm disease was indicated by an additional test made with ten of the trees which had recovered. The trees were re-inoculated in June, 1939, and nine of them developed typical symptoms of the disease.

Although by this report a note of hopefulness is added to the outlook for Dutch elm disease control, it still remains a fact, when the data given above are considered conversely, that after four years seventy-three per cent of the trees, though growing normally and without external evidence of the disease, still had the disease within them and were perhaps ready to show symptoms of it if conditions should become favorable.

SAMUEL FRASER, Geneseo, N. Y., was in Chicago March 21. An old-timer in the trade in western New York, he still grows some items in limited quantities, though other interests now take up much of his time.

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American Sycamore, 4 to 5 ft.	\$12.00
American Sycamore, 5 to 6 ft.	17.50
American Sycamore, 6 to 8 ft.	25.00
Tulip Poplar, 4 to 5 ft.	25.00
Tulip Poplar, 5 to 6 ft.	35.00
Tulip Poplar, 6 to 8 ft.	60.00
Sweet Gum, 4 to 5 ft.	30.00
Sweet Gum, 5 to 6 ft.	45.00
Sweet Gum, 6 to 8 ft.	70.00
Silver Maple, 4 to 5 ft.	8.00
Silver Maple, 5 to 6 ft.	12.00
Silver Maple, 6 to 8 ft.	20.00
White Ash, 4 to 5 ft.	10.00
White Ash, 5 to 6 ft.	15.00
White Ash, 6 to 8 ft.	25.00
White Oak, 4 to 5 ft.	25.00
White Oak, 5 to 6 ft.	35.00
White Oak, 6 to 8 ft.	50.00

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1000 Elliott Columbine, strong 1-yr.	8.00
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100 Buxus Sempervirens, strong R.C.	2.50
100 Buxus Sempervirens, 8 ins. and up	8.00
100 May Violets, long-stemmed blue	2.00
100 German Iris, all different, labeled	3.00
100 Chives, strong divisions	1.00
100 Coreopsis, Double New Gold, 1-yr.	3.00
100 Canterbury Bells, blue, pink, white	3.00
100 Yucca, 1-yr. \$1.50; 3-yr.	10.00
100 Hibiscus, large 1-yr., mixed colors	2.50

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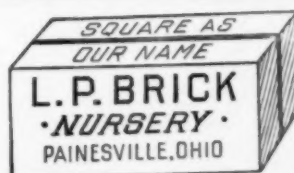
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# This Business of Ours

By Ernest Hemming

## FRAGRANCE.

As far as we are individually concerned, nothing exists except as it is recorded by one or more of our five senses. We touch, taste, see, hear and smell. Our stock in trade, plants, appeals, first, to our sense of sight, the beauty of flowers and plants; second, to our sense of taste by those plants used for food or medicine; third, to our sense of smell. Of course, some of the odors given off by plants are anything but pleasing. The plant world can hardly be said to register on our sense of feeling except perhaps scratching or stinging us. Neither can it be said to register on our sense of hearing.

All of this analysis is by way of finding out what creates demand in plants, or what makes one plant sell in preference to another. We can eliminate the plants that produce food from consideration because we eat to live; that leaves only those that appeal to our sense of sight and sense of smell. It is the latter that suggests a quality of the plant world that has been almost completely overlooked by the nurseryman. It is rare when a plant is bought on account of its fragrance alone or that a landscape gardener specifies a plant for its fragrant quality alone. The writer has yet to hear of a nursery specializing on plants because of their fragrance or of the plant breeder giving fragrance anything but a secondary consideration.

Even if the human sense of smell has degenerated with the advance of civilization, there is considerable sensual pleasure still obtained by burying one's nose in a bunch of violets or fragrant roses.

Among the plants that are worth growing for their fragrance alone are such plants as *Viburnum Carlesii*, *Magnolia glauca*, *Philadelphus coronarius*, *Calycanthus florida*, *Lavendula vera*, *Eleagnus pungens* and *Osmanthus illicifolia*. Even these are rarely planted for their fragrance alone. Of course, when the two qualities of beauty and fragrance are combined in one plant, as in the lilacs,

*Reflections on the progress and the problems of the industry viewed from the vantage of long experience by the head of the Eastern Shore Nurseries, Easton, Md.*

roses, etc., they are bound to be the most popular and best sellers, but it does seem the quality that appeals to our sense of smell has been sadly neglected, both by the planters and hybridists.

E. H.

## PLANT PATENTS.

Not long ago I was talking to a Du Pont chemist who had several chemical patents to his credit. He remarked that the company's patent attorney had told him that, with the multiple complexity of machines, formulae and processes now patented, about all a patent gave the holder was a basis on which to sue for infringement. The patent gave little advantage to the free-lance inventor, for a basic patent is now an ex-

tremely rare occurrence. But, the attorney went on to say, there still lay open one great field for those wishing to obtain patents, and that was in plants.

I wonder if sometimes the outsiders are not more cognizant of our opportunities than we are. A patent, if of a worth-while plant, will give you the chance to charge sufficient to advertise and market it, will protect you while you develop the market and can help you continue research.

All of us should make ourselves acquainted with the opportunities under the plant patent act. Perhaps your editor will run an article on just what plant introductions can be patented, how to obtain patents, the usual fees and charges and the rights obtained under a patent. The more familiar we are with the act, the better position we shall be in to make use of our opportunities.

E. H.

## EVERGREEN SELECTION.

[Continued from page 12.]

it is quite susceptible to winter burn in central and northern Ohio. Except in a few limited sections, it does not seem worthy of continuing production of this variety.

*Daphne cneorum*.—Varieties of *Daphne cneorum*, the rose daphne or garland flower, are not commonly

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listed in trade catalogues. Yet many growers are conscious of the fact that considerable variation often occurs in *Daphne cneorum* as grown in many nurseries. Likewise, I have been told by a number of growers that the more vigorous plants, with slightly larger leaves, produced larger and more abundant flowers. These facts have not been definitely proved by observation.

*Daphne cneorum* is a native of central and southern Europe and attains a height of a foot or a little more. It is procumbent in habit of growth, with slender, trailing and ascending branches and dark or bluish-green, small leaves less than one inch long. Its fragrant, rosy-pink flowers are especially attractive in April and May. Some flowers often appear during the summer.

Much difficulty is often experienced in growing *daphne*, and it is known as a short-lived plant. Even if this fault cannot be corrected, it is worthy of preferred rating because one or two years of good bloom justifies the cost of the plant. If the clients are made to understand this fact, there cannot be serious criticism. Experimental trials have brought out some conditions relative to its culture. Tests have shown that soil reaction is not a serious factor in its production. Good plants can be produced in soil ranging from pH 6.0 to pH 8.0 and probably in soils of more acid reaction than indicated. Good drainage is absolutely essential. If good drainage is provided, a soil relatively high in organic matter is preferred. Planting should be shallow, the crown of the plant set above the soil level. A mulch over the roots is preferred to cultivation. Any injury to the crown or branches should be avoided. *Daphne* prefers a cool soil of low fertility. Planting in partial shade in the hotter climates is best. The rose *daphne* finds its use as a rock garden plant or as a small specimen for foundation planting or evergreen beds. It is hardy in zone 4.

*Euonymus fortunei (radicans) carrierei*, the glossy wintercreeper, is a low-spreading shrub, attaining a height of about three feet and sometimes inclined to climb if given a support. Its leaves are pointed, of thick texture, glossy green and averaging about an inch and one-half in length. It is fully evergreen, and the foliage is much more attractive than

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that of *Euonymus kiautschovica* (patens), with which it is frequently confused in the trade. It produces fruit freely, but not so abundantly as the following variety. It is not specific as to soil requirement or exposure and finds its use as a small shrub for foundation, bed or border planting or as a low clipped hedge.

*Euonymus fortunei* (radicans) vegeta, the bigleaf wintercreeper, has already been discussed under group I, the vines, and needs little further comment here except that, in addition to being one of our best broad-leaved evergreen vines, it is likewise an attractive shrub with an abundance of pinkish-orange fruits. It may be grafted onto 2-foot or 3-foot stems of *Euonymus europæa* or other deciduous species to make an attractive and useful standard plant. Like most of the shrubby species and varieties of euonymus, it is subject to scale. Both of these varieties are hardy in zone 5.

Two varieties of euonymus are placed on the secondary list. These are *Euonymus fortunei altissima*, a type similar to *Euonymus fortunei carrierei* in habit of growth and usefulness, but varying from it in leaf characteristics, and *Euonymus japonica microphylla*. This boxleaf burning bush, hardy in zone 7, is not satisfactory in the region considered in this series of articles, but farther south it is satisfactory, forming a bush three to four feet in height and making a good substitute for boxwood in full sun.

*Ilex crenata convexa* (bullata).—As this plant becomes more and more plentiful, it becomes apparent that it is one of the hardiest, if not the hardiest, of the Japanese hollies and that it is one of the most beautiful evergreen plants for foundation planting where dwarfness is a factor and good foliage is the prime requisite. Described as reaching a height of twenty feet, it more often forms a dense compact plant, wider than high, of about three to five feet. With little trimming it can be easily maintained at three feet or less. The leaves are small, glossy green and cupped. It has black fruits, persisting over winter, as does the species. It is not particular as to soil, but should be kept away from sweeping winds and the winter sun. For two seasons in the past five years

it has stood temperatures of 15 degrees below zero in northern Ohio. It will be used as a formal specimen plant or for hedges and low edging. This plant has met with more approval on the part of the clients in some sections than almost any other foliage plant. Eventually it will become the leading substitute for boxwood in the colder climates.

Three varieties of the Japanese holly find a place on the secondary list. *Ilex crenata helleri* is a dwarf, flat-topped, compact form, with small, dark glossy green leaves. It is stiffly branched and will attain a height of about two feet. While rated highly in some sections, it has not proved reliably hardy in central Ohio. It originated in a nursery in Rhode Island and appears to do especially well there and in some sections of New Jersey.

*Ilex crenata* (Kingsville type), a variety originated by Henry Hohman, Kingsville, Md., has not been named to my knowledge. The variety names *pumila* and *minuta* have been suggested. It is described as a dwarf, slow-growing variety of considerable hardiness. Further trials are needed to determine its correct placement.

*Ilex rugosa*, a low-spreading or prostrate shrub with leaves from three-fourths to two inches in length, dark green, glossy and wrinkled, has

not proved successful in our limited tests. It is described as having red fruits and being hardy in zone 3. It deserves further testing.

*Kalmia latifolia myrtifolia*, myrtle-leaf kalmia.—Little discussion of this plant will be given, since the species will be described more fully in group V. The myrtleleaf kalmia is described as a low, slow-growing shrub with darker green and smaller leaves than the species. The leaves range from about three-fourths to two inches in length. This variety of one of the finest of all broad-leaved evergreens should be more widely propagated and used. So far as known, its requirements are similar to those of the species.

Three varieties of *Kalmia angustifolia*, the lambkill, are placed on the secondary list. They are almost good enough and useful enough to be given a selected rating. The species forms a rather narrow, upright spreading shrub, up to four feet in height, with small, narrow leaves and small purplish or rosy-purple flowers. It is perfectly hardy and may be used as a rock garden subject or better for mass planting in a naturalistic setting. Variety *candida* has white flowers, variety *rubra* has dark purple flowers and *pumila* is a dwarf type. Variety *ovata*, with more ovate leaves, and

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the species are placed on the discard list.

*Kalmia polifolia* and its variety *rosmarinifolia* are low, straggling shrubs of about two feet in height and limited to naturalistic plantings.

*Pieris floribunda*, mountain andromeda, is a slow-growing shrub eventually reaching a height outside the limits of this group, from five to six feet, but as it is usually used in landscape work it seems best to place it here. Few shrubs are more attractive in bloom than the mountain andromeda, native of the region from Virginia to Georgia. It is dense in its habit of growth, bearing dark green leathery leaves about one and one-half to two and one-half inches long. An abundance of white flowers, resembling those of the lily of the valley, are produced in April and May in upright clusters. The flower buds are greenish-white in small, attractive clusters all winter.

Cultural requirements of *Pieris floribunda* do not differ greatly from those of the rhododendrons, being a moist but well drained, acid soil and partial shade. Some trouble has been experienced in its blighting and dying after transplanting. The exact cause of this trouble is not known, and until more information is at hand it only can be advised to handle the plant as carefully as possible in transplanting and to give it ideal conditions. It is hardy, being listed in zone 4 by Rehder. It makes a fine specimen, foundation, border or rock garden plant.

*Rhododendron*, hardy azaleas.—There are so many of the low-growing evergreen azaleas that it becomes exceedingly difficult to enumerate the best. The evergreen azaleas are among our most pleasing shrubs where they can be well grown. Their habit of growth is attractive, their foliage of varicolored green is pleasing and the floral display of white, pink, red, scarlet and lavender-purple flowers can scarcely be matched by any other shrub. It is unfortunate that they cannot be grown to perfection over a wider area. Their requirements for good growth are specific. Exposure is an important consideration, especially under midwestern conditions. They should not be planted in exposed wind-swept situations. They are at home in partial shade and in cool, acid soil beneath trees

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if not subjected to root competition of the trees. Good bed preparation is essential, with excellent drainage, liberal organic matter and an acid reaction. I do not contend that the soil has to be so strongly acid as sometimes mentioned. The other factors mentioned are fully as important as the acid soil.

Three general groups of the evergreen azaleas come within this size group. *Rhododendron indicum*, the Indica azalea, is an evergreen or semi-evergreen, dense, low shrub with dark green leaves about an inch long. The leaves are often glaucous beneath. It is supposedly hardy in zone 5. *Rhododendron indicum balsaminæflorum* is one of the interesting varieties with its double salmon-red flowers in June. More recently various hybrids of *Rhododendron indicum roseum* have been introduced, which are said to be hardy and of good color. They have not been tried extensively in the midwest.

The second group composes the *amœna* azaleas, *Rhododendron obtusum amœnum*. The variety itself is placed on the secondary list because of the rather poor flower color. Otherwise it is a lovely plant and has character of growth and a good green foliage. *Rhododendron obtusum amœnum coccinea* has brilliant red flowers, seems perfectly hardy in the vicinity of Cleveland and fits well into foundation and bed plantings where space is a factor, because of its dwarf compact habit. Bloom is in April and May.

The third group consists of the Kurume azaleas, *Rhododendron obtusum japonicum*. This group of azaleas, including possibly more than 100 varieties with an exceedingly wide range of flower colors, are low, twiggy plants growing to about three feet in height. Where they are hardy and reliable they make a wonderful show. They have not proved satisfactory for outdoor planting in Ohio unless used in a very protected spot. *Hinodegiri* azalea, which belongs here, seems a little more hardy than the rest. Among the good forms are Apple Blossom, Bridesmaid, Coral Bells, Flame, Hinamoyo, Lavender Queen, Orange Beauty, Pink Pearl, Salmon Beauty, Snow and others.

A group of true rhododendrons coming within this size group are those from the European mountains.

They have not been used extensively in this country. Some of the hybrids of these species have been used somewhat in the east. They are hardy in zones 4 or 5. Among these are *Rhododendron arbutifolium*, with elliptic dark green leaves and rosy-pink flowers; *Rhododendron caucasicum*, with dark green leaves and pink to yellowish-white flowers; *Rhododendron ferrugineum*, with glossy, dark green leaves and carmine-pink flowers; *Rhododendron hirsutum*, said to thrive in alkaline soil, with bright green leaves and carmine-pink flowers, and *Rhododendron myrtifolium*, with dull green leaves and light rosy-pink flowers. Varieties of *Rhododendron ferrugineum* and *hirsutum* are listed. Here also might be mentioned *Rhododendron Cunningham's White*, a hybrid of *R. caucasicum*, frequently used for stock and said to be somewhat alkaline-tolerant. Some of these species and varieties grow larger at maturity than the limits of this size group, but are included here for consistency. All are placed on the secondary list.

A few of the other plants on the secondary list need brief comment. *Chamaedaphne calyculata*, the leather-leaf, is a low-spreading shrub which is useful as a ground cover or low plant for moist peaty situations.

The cotoneasters within this group are not worthy of more than secondary rating at present. Some of

them need further trial. *Cotoneaster congesta* (pyrenaica) is a low, compact or creeping shrub with pinkish-white flowers and bright red fruits. *Cotoneaster conspicua decora* is a low prostrate shrub with ascending branches and scarlet fruits. *Cotoneaster microphylla* is a low shrub with spreading branches, small glossy, dark green leaves, white flowers and red berries. The two varieties, *Cotoneaster microphylla cochleata* and *thymifolia* are often considered superior to the species.

*Danaë racemosa* is an evergreen shrub up to three feet in height, with asparaguslike stems and bright, glossy green leaves. The flowers are small and white, and the fruit is red. It is said to do well from Washington south.

*Ledum groenlandicum compactum* is described as a slow-growing, compact type of the common Labrador-tea. It is at home in acid, moist, peaty soils.

*Leiophyllum buxifolium*, the box sandmyrtle, is a dwarf evergreen with small foliage and pinkish-white flowers in May and June. It makes a neat bush about fifteen to

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**BOUNTIFUL RIDGE NURSERIES**

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Fruit Trees, 2-yr., 1 1/16-in. and up.

Apples, 15c Pears, 20c

10,000 Multiflora Japonica, rooted cuttings, de-eyed, \$16.00 per 1000.

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Geneva, N. Y.

**PEACH PITS**

Our Pits Compare Favorably  
With the Best

**HOGANSVILLE NURSERIES**  
HOGANSVILLE, GEORGIA

eighteen inches high. Varieties hugeri and prostratum, dwarfier and more prostrate types, are better than the species. They are adapted to naturalistic plantings or for rock gardens.

Leucothoe davisiae, a native of the west coast, and Leucothoe keiskei, a native of Japan, both of which are listed as being hardy in zone 5, should be given further trial.

Neither Lonicera nitida nor Lonicera pileata has been successful in Ohio. Lonicera nitida, which is listed as being hardy in zone 7, seems to be more reliable than Lonicera pileata, listed as being hardy in zone 5. Lonicera nitida, making an upright shrub six feet high where it is hardy, has attractive, small leaves, but much of the top freezes back in Ohio in normal winters. A new top is produced rapidly, and the plant has a limited use in the rock garden and border plantings. Lonicera pileata, with leaves resembling those of the English privet but smaller, does well in some sections of the east and upper south, where it makes a good foundation and rock garden plant. The variety yunnanensis does not seem to be any improvement over the species.

Mahonia nervosa is described as a low-spreading shrub up to eighteen inches in height, with large leaves. It is listed as hardy in zone 5 and has limited use.

Pachistima myrsinites is a native of the west coast which has given limited promise in the midwest. It is a larger plant with stiffer branches than the better Pachistima canbyi.

The yuccas are difficult to classify according to size groups. While the flower stalks reach a height of ten feet, the long, swordlike leaves arising in dense clumps from this nearly stemless plant seldom are more than three to four feet high. Yucca filamentosa is the most common and reliable species. It is useful as a specimen in some situations. Yucca glauca, with narrower leaves, is hardy and is said to be especially good in the south. Yucca flaccida, with its flacid, recurving leaves, does not appear so attractive as the two previously mentioned species.

The next article in this series will discuss the small types of broad-leaved evergreens, those ranging from four to five feet high.

**Items You May Need**

- 500 Birch, Cutleaf Weeping, 8 to 10 ft.
- 200 Birch, Cutleaf Weeping, 1 1/4 to 1 1/2-in.
- 1,000 Elm, American, 8 to 10 ft. (root pruned 1939)
- 700 Elm, American, 1 1/4 to 1 1/2-in. (root pruned 1939)
- 150 Ginkgo, 8 to 8 ft.
- 200 Ginkgo, 8 to 8 ft.
- 175 Ginkgo, 8 to 10 ft.
- 50 Ginkgo, 1 1/4 to 1 1/2-in.
- 200 Maple, Norway, 2 1/4 to 3-in.
- 1,000 Maple, Norway, 3 to 3 1/2-in.
- 800 Maple, Norway, 2 1/4 to 3-in.
- 2,000 Maple, Norway, 4 to 4 1/2-in.
- All Maple transplanted, 7x7 ft.
- 500 Willow, Thurlow, 8 to 10 ft.
- 400 Willow, Thurlow, 10 to 12 ft.
- 250 Willow, Thurlow, 1 1/4 to 2-in.
- 1,000 Juniper, Pfitzer's 18 to 24 ins. Sheared, compact.
- 800 Juniper, Pfitzer's 2 to 2 1/2 ft. Sheared, compact.
- 300 Juniper, Pfitzer's, 2 1/4 to 3 ft. Sheared, compact.
- 9,000 Montmorency Cherry, 1-yr., 1/4-in.
- 14,000 Montmorency Cherry, 1-yr., 1/4-in.
- 4,000 Montmorency Cherry, 1-yr., 1/4-in.
- 1,300 Montmorency Cherry, 1-yr., 1/4-in.
- 8,000 Elberta Peach, 1/4-in.
- 12,000 Elberta Peach, 1/4-in.
- 9,000 Elberta Peach, 18 to 24 ins., strong

A general list of other stock.

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Largest Nursery in Indiana. Est. 1875.

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## Apple and Peach Trees In Carload Lots

A long variety list to select from. We also can offer other Fruit Trees in carload lots, as well as Tennessee Natural Peach Seeds.

If you are interested in either Fruit Trees or Peach Seeds, send us your want lists and we will quote attractive prices.

**SOUTHERN NURSERY CO.**

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**Wholesale Growers of**

Grapevines, Currants, Gooseberries,

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GROWING for the WHOLESALE TRADE since 1890. The QUALITY of our PLANTS will please your most critical customers. Get our attractive quotations before placing your order.

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Fredonia, N. Y.



## WASHINGTON NOTES.

Frank Chervenka, nurseryman and bulb grower, Sumner, after a weary grind at the legislature, leaves for a vacation in California. His son, Francis Chervenka, has returned from a month's trip to eastern points.

Tony Peterson, business agent of the greenhouse and florists' union, changed his plea of not guilty to one of guilty and paid a fine of \$25 and \$6.35 costs in court at Seattle, Wash., March 9. He was accused of sprinkling tacks or roofing nails at the entrance to the C. P. Malmo Nursery, Seattle.

John Strander, of the Strander Nursery, Seattle, and his wife recently left for Yakima, Spokane and points in Idaho.

Frequent importations of seeds and nursery stock are being cleared through the port of Seattle. Recently one shipment of 488 parcels passed inspection, directed to ninety-four consignees located in twenty-nine different states and weighing 3,500 pounds. Also passed was a shipment of seeds, totaling 3,000 pounds, of 309 parcels to seventy-seven consignees in twenty-seven states. Certificates of inspection showed Japanese origin.

There is appearing on the horizon a cloud depicting a shortage in nursery items.

Five auto railroad cars filled to capacity with rhododendrons were shipped last week to eastern points by the State Flower Nursery, Bothell.

H. B. 169, appropriating \$200,000 for the division of horticulture for the control and eradication of insect pests and plant diseases; H. B. 181, making areas infected with plant pests or diseases which are likely to cause damage to other properties a nuisance, and H. B. 378, making it unlawful to sell adulterated or misbranded economic poisons, were passed by the recent Washington legislature and have now become laws. H. B. 228, the lien law, was passed by the house, but the senate overlooked it in the final rush hours. An appropriation was made to employ an assistant pathologist at the western Washington experiment station, at Puyallup.

Puyallup valley towns opened their eighth annual daffodil festival March 22, with a coronation banquet in the Puyallup Civic Auditorium, where Pauline Martin, 18-year-old Sumner girl, was crowned queen. The daffodil festival ball was held at the

Winthrop hotel, Tacoma. Next day a festival sailboat regatta on Commencement bay, Tacoma, was sponsored by the Tacoma Yacht Club. Queen Pauline visited Seattle and attended the opening of the national flower show. Daily festival events were scheduled throughout the following week, with the big daffodil parade March 29.

Twenty-four hours after test shipments of Washington daffodils left Seattle, March 20, on Northwest Airlines and United Air Lines planes, the regular daily market was established. The air-express rates were reduced forty per cent on this type of shipment—a big step in solving the problem of Washington growers to get perishable products to large-consumption markets rapidly.

W. L. Fulmer.

## WASHINGTON PEAT MOSS.

When the channels of trade were closed to the importation of peat moss by the war, growers were compelled to look elsewhere.

Adjacent to Seattle, Wash., the Wilbur-Ellis Co. opened up a large bog, erected buildings, installed the most modern type of machinery and began processing a product that has met instant approval.

The peat moss is floated from the bog in a good deal the same manner that gold is hydraulicked out of a deposit and made to flow with a great excess of water to the screens within the processing plant. The same water which is used to transport the moss from the bog to the plant is also utilized over a series of screens and baffles in order to re-

move the greatest possible amount of silt, foreign roots, twigs, etc. It is the presence of this large excess of water utilized to facilitate efficient screening and washing of the moss which results in the superior Light-house products.

After the moss has passed over the separating screens and riffles, it is partially dried by means of vacuum filtration and vacuum press rolls.

One of the operating features of this particular process is the utilization of what is termed a barometric leg. A barometric leg is a simple device whereby the flow of waste water is used to create the vacuum which effects the removal of the excess water from the fibrous mass as it passes over the vacuum rolls and the vacuum filter. An efficient barometric leg of this kind will create a minus water pressure equivalent to a 20 to 22-foot head. The reason such a method can be carried out in this particular plant is that the plant

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NURSERY SUPPLIES, including DOWAX.

## JUNIPERUS PFITZERIANA

	Per 100	Per 1000
6 to 9 ins., once trans. ....	\$ 7.00	\$ 55.00
9 to 12 ins., twice trans. ....	12.00	100.00
2 1/4-in. pots .....	10.00	80.00

## THUJA BAKERI

	Per 100	Per 1000
10 to 15 ins., once trans. ....	\$8.00	\$55.00
2 1/4-in. pots .....	9.00	75.00

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WHOLESALE NURSERY**  
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## SIBERIAN FLOWERING CRAB

One of the prettiest flowering crabs. Hardest of them all. Very fragrant, large, early spring blossoms. Red buds, flowers pink and white. Plant extensively as specimen lawn trees, or along drives and walks, on home lawns and public grounds.

Size	Per 10	Per 25	Per 100
3 to 4 ft., br. ....	\$2.00	\$3.50	\$12.50
2 to 3 ft., br. ....	1.50	2.50	7.50
18 to 24 in., br. ....	1.00	1.75	5.00


Send for list of Newest Plant Introductions of Prof. N. E. Hansen and Carl A. Hansen.

## MALUS BACCATA

Hardest Apple Root Stock Known	
Sizes and Grades	Per 1000
1/4-in. and up, br., heavy .....	\$20.00
1/4-in. and up, straight, heavy .....	17.50
No. 1, 3/16 to 1/2-in., strong .....	15.00
No. 2, 2/16 to 3/16-in., strong .....	12.50
No. 3, about 2/16-in. ....	10.00

5% discount and free packing for cash with order.

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 FAIRVIEW, OREGON  
*Wholesale Only*

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Fruit Tree Seedlings  
 Flowering Ornamental Trees  
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 Roses

Grown right and packed right.  
 Combination carloads to Eastern distributing points will save you on freight.

Thanks to our many friends, we are now completely sold out of roses for this season. We wish to express our appreciation for their patronage.

We will be in a position to furnish an even larger and better crop for the 1941-42 season.

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*Wholesale Rose Growers*  
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California Field-grown  
**ROSEBUSHES**  
 Dependable  
**Howard Rose Co.**  
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North Dakota and Montana Seeds  
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 and other forestry seeds  
 WILDFLOWER SEEDS and NATIVE PLANTS  
 Write for wholesale trade list.  
**E. C. MORAN, Medora, N. D.**

itself is situated thirty feet above the level of the peat bog.

After the moss has passed the vacuum rolls in the form of a thick mat of comparatively low water content, it is fed into a drier on a felt in a continuous sheet. Just as it passes into the drier it is disintegrated. The disintegrated product falls on a moving screen, 150 feet long, which carries it through the drier and eventually tumbles it off the end in the form of dried peat moss. The finished product coming from the drier has lost none of its absorptive powers and, in fact, has greater moisture absorptive powers than peat taken straight from the bog. Therefore, pound for pound, more moss is actually present in the finished product than in the raw material from which it is prepared.

The moss as it is marketed has greater absorptive powers than even air-dried peat, since it has been quickly dried without injury and has not been subjected to the long exposure to bacterial and fungicidal decomposition which normally takes place in the air drying of peat.

W. L. Fulmer.

#### CALIFORNIA NOTES.

Jannoch Nurseries, Altadena, were awarded the contract for landscaping the downstream slope of Hansen dam, San Fernando, on their low bid of \$17,135 submitted to the United States district engineer's office. Plans are to plant 1,150,000 mesembryanthemums as a deterrent to erosion of a 2-mile-long rolled-earth dam completed last summer. Government engineers had estimated the cost of the plants at \$38 per thousand, but the low bid was \$14.90.

The nurserymen's division of the Southern California Horticultural Institute held a dinner meeting March 27 at the Cabrillo hotel, Los Angeles, which was followed by a program provided by Ernst Rober, of the West Los Angeles Nursery, West Los Angeles, and F. C. Tomlinson, of the Select Nurseries, Whittier, in keeping with the recently instituted plan to have members with birthday anniversaries in each month take over the program for that month's meeting. There was a discussion of pending legislation.

Changes in the by-laws of the association were discussed at the dinner

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Birches — Crabs — Hawthorns. Chinese Elm, to 2½-in. cal., Tr. Maples, Norway and Sycamore. Mountain Ash, European and Oakleaf. Oregon Grape, 2-yr., T., Br. Liners. Peaches and Plums, Flowering. Fruit Tree Seedlings.



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Combination carloads available to Eastern distributing points.

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Bechtel Crab  
 Cut-leaf Birch  
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## CHINESE ELM SEEDLINGS

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## ORENCO NURSERY CO.

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 WHOLESALE GROWERS

Fruit, Shade, Flowering Ornamental Trees, Fruit-tree Seedlings, Roses, Etc.  
 Very complete line of quality stock  
 Catalogue sent on request.

## Rich & Sons Nursery

Hillsboro, Ore.

## FRUIT TREES

Ornamental Trees Shrubs

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### PURE SPHAGNUM..BETTER THAN IMPORTED MOSS

—produced in the most modern peat processing plant in the world, Lighthouse-Brand Horticultural Peat Moss is light, free of all waste and absorbs up to 19 times its weight in water. Laboratory tests prove it better than imported moss!

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## RESULTS BRING ADVERTISING

## AGAIN—

—this number of the American Nurseryman contains more advertising than any other issue in its history.

meeting of the Central California Nurserymen's Association, March 13, at the Hotel Benjamin Franklin, San Mateo.

### MEETING LAWN PROBLEMS IN MID-ATLANTIC AREA.

J. W. Bengston, of the greens section of the United States Golf Association, when he spoke at the recent Maryland short course on "Planting and Maintaining Lawns," gave a running description of Kodachrome slides of the test lawns at the Arlington turf gardens. A brief summary of his remarks on lawn making follows.

A good lawn is a valuable asset to any property, while poor turf detracts from buildings and landscape plantings no matter how effective they may be.

The area to be used for turf should be thoroughly tilled and an ample supply of humus or other organic matter well worked in the soil. The soil should be tested for acidity and, if the pH is low, lime, preferably a dolomite lime containing from five to ten per cent magnesium, should be applied to bring it up to around pH 6.2. This work should be done in the late summer or early fall. September or October seed sowings give the best results. Spring sowing in the vicinity of Washington, D. C., is merely throwing money away, as crab grass smothers out the good grasses.

A normally fertile soil should give good results with an application of a 10-6-4 fertilizer at the rate of from 400 to 800 or even 1,600 pounds per acre at the time of seeding, with a follow-up in February of another application of fertilizer at the 400-pound rate. Only the best seeds obtainable should be sown. For the average lawn use a mixture of Kentucky bluegrass with not more than ten per cent of redtop or colonial or highland bent. The latter two give better results than the former in his section. Seeding should be at the rate of from eighty to 120 pounds per acre. Even with the maximum application of fertilizer and seeding at the rate of eighty pounds, the cost of seeds and fertilizer will only be about \$47 per acre and an excellent turf may be expected.

In lawn maintenance, the chief problem is to keep a high degree of

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## of Fine Quality

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**Mahonia (Berberis) repens**  
4 to 6-in. seedlings, \$5.00 per 100  
**Mahonia Aquifolium**  
4 to 6-in. seedlings, \$4.00 per 100

*Upton Gardens*  
Mrs. R. Marriage  
**Colorado Springs Colorado**

### LAWN GRASS SEED

Select Recleaned

	100 lbs.
Velvet Lawn Mixture.....	\$18.00
Kentucky Bluegrass, extra-fine.....	19.00
Redtop, fancy silver seed.....	10.50
American Rye Grass.....	6.00
Kentucky Bluegrass and Velvet Lawn, packed in 112-lb. bags.	

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**CyclonoX**

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**FOR KILLING RED  
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• Now, it's easy to control Red Spider on evergreens . . . simply spray trees with a solution of CyclonoX when red spider appears. Experience indicates that usually one application is sufficient. It will pay you to protect your evergreens with CyclonoX . . . the patented Niagara Sprayer and Chemical Co. formula for easy control of red spider.

Write for details.

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fertility at all times so that the grasses will have ample to feed on. If this is done, weeds will have little opportunity to become established. A 10-6-4 fertilizer should be applied in the fall at any of the previously mentioned rates. This will stimulate the bluegrass when the crab grass is going off. An application of a quick-acting fertilizer should be made early in the spring so that it will be gone before the weeds and crab grass start.

A great mistake is generally made in mowing. Bluegrass should not be cut shorter than one and one-quarter inches and one and one-half inches is preferable. During May and early June, the mower should be set at two or two and one-half inches, so that the bluegrass shades out the germinating crab grass.

Watering is a problem and ordinarily a big mistake in the latitude of Washington, D. C. There bluegrass goes dormant during the heat of the summer, and watering to try to keep up a lush appearance doesn't work—the vitality of the grass is lowered and weeds obtain a foothold.

Fertilizer in liberal quantities, with some lime to correct acidity, is the best insurance against weed infestations. Where weeds are bad, applications of sodium arsenite may be made at the rate of four ounces per thousand square feet. This should be followed in about two weeks with a second application to kill what weeds come back. This is easiest applied in a water solution. Fertilizer should be applied between sprayings to stimulate the grass. Sodium arsenite applied at this rate is not strong enough to injure the grass, but will kill the weeds. However, in extremely hot weather, when the weeds are most susceptible to the poison,

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**"NURSERY VOLCK"** An insecticidal "foliage" oil emulsion that can be used on most tender plants all through the season. Leaves a glossy finish on foliage.

**"GARDEN VOLCK"** A summer oil combined with an active form of nicotine plus a wetting agent. An ideal insecticide.

**"EXTRAX"** "EXTRAX" has given effective control of many different insects when used regularly at 1-800 dilution.

**"GREENOL"** A new general purpose liquid copper fungicide and spreader—combines with "EXTRAX." Has given splendid results at 1-800 dilution.

When you use these "ORTHO" Sprays you are assured of proper chemical balance (safety) and economy. Keep a stock of "ORTHO" Sprays on hand. Sell them to your customers. You can develop a profitable accessory business this way.

Buy from your dealer or write to



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**CALIFORNIA SPRAY-CHEMICAL CORPORATION**

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Now made in four sizes and two grades, comparable in soil capacity to 6-in., 7-in., 8-in. and 9-in. clay pots. Prices as low as \$18.50 per 1000.

Cheap in price (can be given away with the plant). Non-Porous (slow to dry out), produce a better plant than a clay pot, make better satisfied customers and more profit for the Florist and Nurseryman.

Send for free circulars and prices. Sample carton sent by mail for 25c.

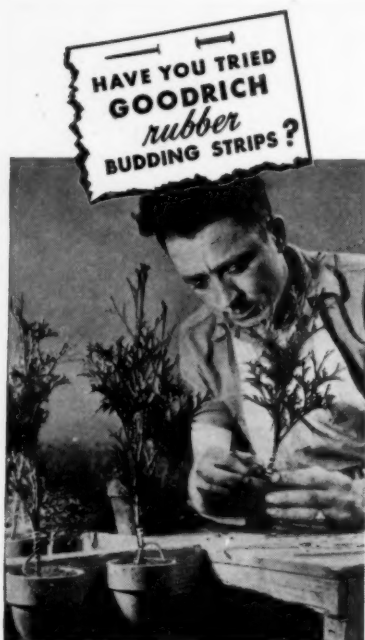
**CLOVERSET FLOWER FARM,**  
**ERNEST HAYSLE & SON**

**105th & Broadway**  
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the grass may turn brown, but it will shortly regain its green color.

If a client demands spring sowing for a lawn, good results may be had by using a mixture of fifty pounds of domestic rye grass, ten pounds of Kentucky bluegrass and one pound of Kent's wild white clover to the

acre. This gives a good effect immediately and carries through the summer. In August, after cutting the standing grass as closely as possible, drill in the recommended bluegrass mixture with an alfalfa drill or the whole area may be plowed up and a new lawn made. J. C. C.



## HERE'S HOW TO SAVE ON GRAFTING COSTS

Goodrich Rubber Budding Strips save you the time and labor of removing binding after buds have knit. They exert an even pressure—thus reducing the hazard of having buds cut or injured during growth. Goodrich Strips hold the graft firmly, securely, yet when no longer needed they simply fall away leaving the bud free to expand and grow naturally.

They are scientifically compounded to deteriorate in a predetermined time—dependent upon climatic conditions. They can be applied easier and faster than old-fashioned methods. No knots to tie—three or four times around, then a snap tie and the bud is bound securely. No time or labor is required in preparing them for use.

Give your stock better protection, save time and money with this better binding. Write today for FREE SAMPLES and list of prices. The B. F. Goodrich Company, Sundries Division, 1247 S. High St., Akron, O.

**Goodrich**  
*Rubber*  
**BUDDING STRIPS**

## LAKE COUNTY CREDIT PLAN.

One of the important activities of the Lake County Nurserymen's Association was explained at the recent nurserymen's school at Painesville, O., by Lawrence P. Brick, chairman of the committee which compiles a list of delinquent wholesale accounts for reporting members of the association.

A questionnaire is mailed to all members February 1 and August 1. By code letters the reporting member indicates the approximate size of a delinquent account and by another series of code letters, the number of months past due. When these questionnaires are returned, an alphabetical list is furnished each of the reporting members. It is not a credit rating report nor a reflection on one's financial standing, said Mr. Brick. It provides a simple way to keep check on those who make a practice of buying at one place for a while and then leaving an unpaid account while making purchases from another wholesaler. The reports are for the exclusive use of the reporting members and strictly confidential, no information being imparted to nonmembers or non-reporting members. The credit plan has been found quite successful by the members of the association.

This year's school was the seventh sponsored by the Lake County Nurserymen's Association and the agricultural extension service, together with the department of horticulture of Ohio State University. The enrollment was over 120 and the average attendance seventy-one, about one-fourth of whom came from outside the county. Besides Mr. Brick the nurserymen on the program were D. R. Metzger, Youngstown, and Ed Jenkins, Winona. From Ohio State University were Dr. J. H. Gourley and Dr. L. C. Chadwick. Donald Comin, of the Wooster station, and Virgil Overholt, of the university department of agricultural engineering, were other speakers.

W. G. McKAY, president of the McKay Nursery Co., Madison, Wis., has been appointed by Governor Heil as a colonel in the Wisconsin National Guard, effective March 20, 1941, and received the assignment as aide-de-camp to the commander in chief.



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Grass needs a high-nitrogen fertilizer, well-balanced with ALL the other needed plant foods, for rich green growth all season long. That's Agrico for Lawns, Trees and Shrubs

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Flowers and vegetables require less nitrogen but more phosphorus with ALL the other essential plant foods in right proportions—for beautiful bloom and fine fruit. That's Agrico for Flowers and Vegetables.



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### 4-inch POT LABELS

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30,000 and 40,000—\$1.25 per 1000  
50,000 to 90,000—1.15 per 1000  
100,000 and over—1.10 per 1000

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Nurserymen, orchardists and florists, to sell the best established, best advertised line of sprayers in territories conveniently served from their own nurseries or greenhouses. Liberal commissions should net several hundred dollars per year in the right men.

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Established nursery, 35 miles from San Francisco, wants reliable nursery salesman who thoroughly understands the business; also with knowledge of floral designing; middle age, married, good personality; meet public. Good opportunity for right man—one that will show an interest in his work; no others need apply. Write full particulars and references in first letter. Address No. 184, care of American Nurseryman.

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Experienced landscape salesman by well established Virginia nursery. Permanent position with opportunity for advancement for person of ability. Send references and samples of work and state salary desired in first letter. Address No. 183, c/o American Nurseryman, 508 S. Dearborn St., Chicago, Ill.

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Landscape salesman, must be able to draw his own plans. Best of references required. Wiegand's Evergreen Nursery, 2661 Kessler Blvd., Indianapolis, Indiana.

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Quantity of used Cypress hotbed ash, size 3x6 feet, glazed and painted, No. 1 condition. Priced very reasonably. State quantity desired.

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Ask for special list of fine dormant roots.  
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Privet Amoor River North, 6 to 10 ins., \$7.50  
per 1000; 4 to 6 ins., \$5.00; small liners, \$3.00;  
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Quality stock. Attractive prices.  
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Baled, in carlots, F. O. B. Virginia Mill, \$7.00  
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BERBERIS THUNBERGII.  
4-yr., transplanted, heavily branched, 2 to 3  
ft., \$15.00 per 100; \$14.00 per 1000.  
WAYNESBORO NURSERIES, INC.,  
Waynesboro, Va.

TREE MOVING MACHINES.  
Truck and trailer types, all capacities. Write  
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ins., \$5.00 per 1000. Lobelia Cardinalis, Cardinal  
Flower, \$3.00 per 100, \$25.00 per 1000.  
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Improved Swiss Giants, strong, stocky plants,  
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Specimen trees, 2 1/2 to 3-in. caliper, \$250.00 per  
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Bechtel's, Baccata Fructo Leuto, Hops, Mat-  
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Write for wholesale price list.  
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The perfect foundation plant for sun or shade,  
easy to grow. 3 to 4 ins., \$5.00 per 100; 4 to 6  
ins., \$10.00 per 100; 6 to 8 ins., \$15.00 per 100.  
Ilex Bullata, 4 to 8 ins., T., 10c; 2 to 4 ins.,  
C., 5c.  
ALANWOLD NURSERY, NESHAMINY, PA.

Taxus Media Hattfieldi, potted 1939, 2 1/2-in. 12 1/2c  
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Taxus Cusp. Nana, potted 1939, 2 1/2-in. 10c  
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Viburnum Opulus, 18 to 24 ins., 3 to 5 br. 12 1/2c  
Viburnum Lentago, 18 to 24 ins., 2 1/2-in. pots 12c  
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BEARING-SIZE APPLE TREES.  
5-yr., twice transplanted specimen trees, suited  
for both ornamental and home orchard planting.  
In assorted varieties, 7 to 8 ft., \$10.00 per 10,  
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Red and white.  
Tied 10 in a bundle.  
5 to 6 feet.....50c  
4 to 5 feet.....35c  
3 to 4 feet.....20c  
2 to 3 feet.....10c  
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L. O. HYBRID FRENCH LILACS.  
Own root, 12 to 18 ins. Per 100  
Hugo Koster, reddish-lavender.....\$18.00  
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Miss Ellen Willmott, dbl. white.....20.00  
Mme. Felix, egl. white.....15.00  
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President Lincoln, Wedgwood blue.....35.00  
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N. I. W. Kriek, Lansing, Mich.

500,000 CHINESE ELM.  
Price per 1000: 6 to 12 ins. \$2.50; 12 to 18  
ins., \$3.95; 18 to 24 ins., \$6.40; 24 to 30 ins.,  
\$10.00. Price per each: 2 to 3 ft., 2c; 3 to 4 ft.,  
3 1/2c; 4 to 5 ft., 5c; 5 to 6 ft., 15c; 6 to 8 ft., 25c;  
8 to 10 ft., 35c.  
Flowering Willow, beautiful pink-orchid bloss-  
oms through the summer, 3 to 4 ft., 15c;  
4 to 5 ft., 20c.  
Cash. F. O. B. Lubbock.  
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LINING-OUT STOCK.  
Per 100  
Azalea (Ghent), 2-yr., tr. 3 to 6 ins. \$10.00  
Taxus Cuspidata, strong 2-yr. adgs. 4.00  
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Ask for complete list of lining-out stock and  
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Red Barberry, 1-yr. \$2.00 \$15.00  
Hemlock, transpl., 2-yr., 4 to 6 ins. 5.00 40.00  
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Transpl., 4-yr., 9 to 12 ins. 11.00 100.00  
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Ilex crenata, 2-yr. 2.50 20.00  
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Grafts from pots.  
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Complete list on request.

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SHRUBS.  
Hall's Honeysuckle, white, 2-yr., \$3.00 per 100  
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good liners, \$25.00 per 1000.  
Weigela Abel Carriere, pink, 18 to 24 ins., 2  
br. and up, \$7.00 per 100. 12 to 18 ins., 2 br.  
and up, \$6.00 per 100. Liners and single stem,  
\$4.00 per 100.  
Weigela Eva Rathke, red, 2 to 3 ft., 2 br. and  
up, \$12.00 per 100. 18 to 24 ins., 2 br. and up,  
\$10.00 per 100. 12 to 18 ins., 2 br. and up, \$8.00  
per 100. Liners and single stem, \$5.00 per 100.  
Weigela Rosea, pink, 2 to 3 ft., 3 br. and up,  
\$10.00 per 100. 18 to 24 ins., 2 br. and up, \$7.00  
per 100. 12 to 18 ins., 2 br. and up, \$6.00 per  
100. Liners and single stem, \$4.00 per 100.  
Wisteria sinensis, Chinese, own root (not seed-  
lings), lavender, 18 to 24 ins., 2 or more branches,  
\$10.00 per 100.  
F. O. B. nursery. Cash with order, please.  
VERHALEN NURSERY CO.,  
Scottsville, Tex.

HARDY BUSH ROSES.  
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Nos. 1, 1 1/2, 2. Amelle Graveriaux, red, double;  
Nos. 1, 2, 3. Belle Polveine, pink, double;  
Nos. 1, 1 1/2, 2. F. J. Grootendorst, No. 3. Grooten-  
dorst Supreme, red, double (Improved Grooten-  
dorst); No. 1. Max Graf, pink, single, creep-  
ing; No. 1, 1 1/2, 2. Rugosa Alba, white, single;  
Nos. 1, 1 1/2, 2. Sir Thomas Lipton, white, double;  
Nos. 1, 2, 3.  
MISCELLANEOUS: Austrian Copper, coppery  
shrub Rose; Nos. 2, 3. GOLDEN Moss (Moss  
Rose), No. 1, 1 1/2. Harrison's Yellow, yellow shrub  
Rose; No. 1. Persian Yellow, yellow shrub Rose;  
No. 3.  
HARDY CLIMBERS: Crimson Rambler, crim-  
son; Nos. 1, 1 1/2, 2. Glendale, yellow; No. 2.  
Jacotte, yellow; Nos. 2, 3. Mermald, large, sin-  
gle yellow, everblooming; Nos. 1, 1 1/2, 2. Rose-  
dark pink Tausendschoen; No. 3. Mme. Gregoire  
Staehelein, pink and orange (Spanish Beauty);  
No. 2.  
Nos. 1 and 1 1/2, 10 per bundle; Nos. 2 and 3, 20  
per bundle.  
F. O. B. nursery. Cash with order, please.  
VERHALEN NURSERY CO.,  
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100,000 Victoria Rhubarb, 3/4 to 1 inch, \$8.00  
to \$15.00 per 1000. 2,000,000 Gen Everbearing  
Strawberry plants, \$3.00 per 1000; 10,000 up,  
\$2.80 per 1000. Nice plants, fresh dug. Prompt  
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CONIFERS. Per 100 Per 1000

BIOTA Aurea Nana: Rooted cuttings.....\$8.00 \$60.00  
BIOTA Aurea Nana Globosa,  
Bakeri.  
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Rooted cuttings.....6.00 50.00

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Rooted cuttings.....6.00 50.00  
2-in. pots.....9.00 70.00  
2 1/2-in. pots.....11.00 90.00

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Rooted cuttings.....8.00 60.00  
2 1/2-in. pots.....12.00 100.00

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ABELIA Grandiflora: Per 100 Per 1000  
Rooted cuttings.....\$4.00 \$30.00

BUXUS Harlandii, Dwarf Boxwood:  
Rooted cuttings.....6.00 50.00  
4 to 6 ins., once transplanted.....8.00 65.00  
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Rooted cuttings.....6.00 50.00  
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EUONYMUS Japonicus:  
Rooted cuttings.....4.00 30.00  
2 1/2-in. pots.....6.00 50.00  
6 to 9 ins., once transplanted.....8.00 60.00  
9 to 12 ins., once transplanted.....10.00 80.00

GARDENIA Radicans:  
2 1/2-in. pots.....8.00 60.00  
JASMINE, Floridum:  
9 to 12 ins., once transplanted.....8.00 60.00

Cherry Laurel:  
9 to 12 ins., once transplanted.....5.00 40.00  
LEUCOPHYLLUM Texanum:  
2-in. pots.....10.00 80.00  
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2 1/2-in. pots.....15.00 120.00

LIGUSTRUM Lucidum:  
Rooted cuttings.....5.00 40.00  
2 1/2-in. pots.....10.00 80.00

PYRACANTHA Coccinea,  
Coccinea Lalandi,  
Microphylla,  
Yunnanensis:  
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2-in. pots.....8.00 60.00  
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## Correction:

Publishers announce  
price as \$4.50

MAINTENANCE OF  
SHADE AND  
ORNAMENTAL TREES  
By Dr. P. P. Pirone

See description of contents in large  
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issue.

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## STARTS GARDEN COLUMN.

The Gary Post-Tribune started a garden column under the title "Behind the Garden Wall" in its March 3 issue, and the garden editor is Irvin J. Mathews, who operates Matthews Nursery Landscape Service, 1216 West Ridge road, Gary, Ind.

His plan is to supply a column three days a week. That in the Monday edition will be especially aimed at those who have new homes and wish to develop the landscape properly. The Wednesday column will be directed to the general run of garden enthusiasts. The Friday column will be given over to answering some of the most important questions asked by readers.

Mr. Mathews has a quarter century of professional experience to draw on, besides what he learned as a boy on a farm with an orchard in upper Michigan. He graduated from Michigan State College and was county agent at Winamac, Ind., before starting a nursery there and subsequently engaging in landscape service at Gary.

March 7 he addressed the members of the Munster Garden Club, in the town hall at Munster, Ind., on "New Developments in Ornamental Gardening."

With newspapers looking for garden information as an editorial feature, opportunities are present for nurserymen in many localities to keep their name before the local public through supplying a garden column, while performing a public benefit in disseminating much-needed information.

## CATALOGUES RECEIVED.

William Crosby Horsford, Charlotte, Vt.—Wholesale price list of collected evergreens and plants, 8 pages and cover, 4x9 inches.

Andrews Nursery Co., Faribault, Minn.—Retail catalogue of fruits and ornamentals, illustrated, partly in color, 28 pages and cover, 7x10 inches.

Herbst Bros., New York, N. Y.—Wholesale price list, dated March, 1941, of seeds for nurserymen, 24 pages, 4x9 inches.

Home Nursery, Lafayette, Ill.—Retail catalogue of nursery stock, illustrated, 32 pages and cover, 7x10 inches.

Tingle Nursery Co., Pittsville, Md.—Descriptive list of lilacs, 12 pages and cover, 3 3/4 x 5 3/4 inches; 4-page folder of same size gives sizes and prices.

C. F. Wassenberg, Van Wert, O.—Price list of peonies, irises and hemerocallis, 3 pages, mimeographed, 8 1/2 x 14 inches.

Berryhill Nursery Co., Springfield, O.—Wholesale trade list offers general nursery stock, 16 pages and cover, 4 3/4 x 8 3/4 inches.

Mellow Bros. Nursery, Niles, Cal.—Wholesale price list of rose understocks grown on contract, page circular, 8x9 inches.

Frank H. Rose, Missoula, Mont.—Price list of native alpine, 8 pages in circular form, 3 1/2 x 8 1/2 inches.

A. M. Leonard & Son, Piqua, O.—Handbook of nursery and garden tools, 96 pages and cover, 4 1/2 x 6 3/4 inches.

Shepard Nurseries, Skaneateles, N. Y.—Trade price list of nursery stock, 12 pages, 5 1/2 x 8 1/2 inches.

C. Malmo Nursery, Seattle, Wash.—Retail catalogue of nursery stock, seeds and garden supplies, 40 pages and cover, 7 3/4 x 10 1/2 inches.

Chase Nursery Co., Chase, Ala.—Wholesale spring surplus bulletin of nursery stock, 16 pages, 7 3/4 x 9 inches.

Storrs & Harrison, Inc., Painesville, O.—Wholesale price list of nursery and greenhouse stock and seeds, 88 pages and cover, 5 1/2 x 8 1/4 inches.

Hankinson Nursery Co., Hankinson, N. D.—Wholesale list of nursery stock, 4 pages, mimeographed, 8 1/2 x 11 inches.

Porter-Walton Co., Salt Lake City, Utah.—Retail catalogue of nursery stock, garden and field seeds and accessories, 76 pages and cover, 7x10 inches.

Weston Nurseries, Weston, Mass.—Retail catalogue of general nursery stock, 72 pages and cover, 6x9 inches.

Hillier & Sons, Winchester, England.—Catalogue of trees, shrubs and plants, especially prepared for distribution in the United States, 48 pages, 5 1/2 x 8 1/2 inches.

Rose Hill Nursery, Minneapolis and St. Paul, Minn.—Retail catalogue of nursery stock and landscape items, illustrated, 36 pages and cover, 7x10 inches.

Brookdale-Kingsway, Ltd., Bowmanville, Ont.—Retail descriptive price list of stock for landscaping includes some fruits, 64 pages and cover, 6 3/4 x 9 3/4 inches.

## FLOWER SHOWS.

[Continued from page 8.]

The Brookside Nurseries, Darien, Conn., won the International flower show trophy for such a planting with material of the type calculated to bloom naturally at one period, including azaleas, dogwoods, wisterias, daphnes and some perennials.

With his entry in the rock garden class, Zenon Schreiber, Bergenfield, N. J., showed some difficult subjects in bloom which, with his skillful placing of rocks, won him the C. H. Totty memorial medal for staging the most meritorious exhibit in the show. The other entry in the rock garden class, Effingham Pinto, Plainfield, N. J., depicted a wild planting.

Henry A. Dreer, Inc., Riverton, N. J., had an exhibit of many kinds of small plants, some of them rare items.

A feature of the New York show was the Biblical flower garden arranged by P. H. Everett, horticulturist of the New York Botanical Garden, which received a gold medal. The account of the materials in this garden in the recent issue of the garden's bulletin is interesting reading.

The Brooklyn Botanic Garden won a gold medal for a collection of more than seventy forms of ivy, in explanation of which the garden published a pamphlet of several pages.

## At Seattle.

The twenty-second national flower show was held March 23 to 30,

## WRITE FOR 10-DAY TRIAL OFFER on this High Pressure PARAGON SPRAYER



TEST it for yourself. Compare results with what you have been getting from your present sprayer. Use any spray solution or cold water paint. Spray your nursery stock, whitewash your greenhouses, barns and tool sheds, **inside and out**. Note how easily this **Paragon** delivers powerful uniform pressure at the nozzle with little effort at the pump handle. Passes through narrowest aisles without jamming at corners. Automatic agitator prevents solution from settling. We guarantee it **never to clog** while in use. Ten days trial costs you nothing if not satisfied. If your dealer does not sell the Paragon, mail the coupon today.



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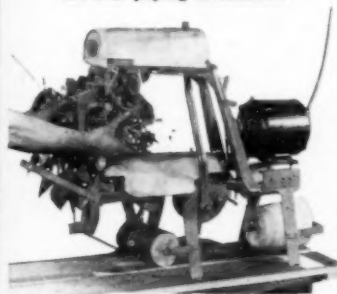
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## NEW PRONOUNCING DICTIONARY

of Plant Names and Botanical Terms

64 pages, 3000 names, **25¢** per copy

**AMERICAN NURSERYMAN**

608 S. Dearborn St. Chicago, Ill.

in the huge Civic Auditorium at Seattle, Wash., the first time this event has been staged in the far west.

The great main floor and the lower floors were laid out in colorful beds, all of the displays leading up to the huge stage, where the Seattle park department, under the direction of the veteran superintendent, Jacob Umlauff, had constructed a replica of Mount Rainier and the hardly less famous Snoqualmie falls. Colored lights played on the cataract where the water fell into a beautiful glen crowded with Kurume azaleas in full bloom under somber evergreens whose shades accentuated the flowering Japanese cherries that leaned over the massed azaleas.

In the foyer of the auditorium the keynote of the show was struck at once by three beds of azaleas and camellias about the double entrances. While azaleas in dozens of shades dominated the displays of the Murphy Rhod-Azalea Gardens, Rolling Bay, Wash., and the Woodland Park Floral Co., Sumner, Wash., that of the Theodore Albert Nursery, Olympia, Wash., on the extreme right, was rich in well bloomed camellias in the larger sizes, winning first award for a camellia garden.

The azalea and rhododendron display of Fred Winters and Endre Ostbo, Bellevue, featured many scarce species and some of the later's fine named seedlings from crosses.

The State Flower Nursery, Bothell, featured Washington's state flower, the rhododendron, winning first prize in the azalea and rhododendron garden class.

The low plantings of rock plants by L. N. Roberson, Seattle, and the terminal moraine gardens planted by the western unit of the American Rock Garden Society were masterly in their faithfulness to those found on the mountain slopes of the near-by Cascade range.

Noteworthy for its naturalness was the rock garden setting of Sattree & Gorud, Seattle.

A hillside planting of azalea species under tall flowering trees and shrubs in 100 varieties led away from the stage on the right, arranged by the University of Washington arboretum.

In the class for a foundation planting of nursery material, to show the proper use of plants suitable for this

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**CRYSTAL BORER REPELLENT**  
For most species of borers on deciduous trees. Apply as protective measure. Used by leading tree companies.

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A scientific wax emulsion. Can be applied with spray equipment. Retards and reduces loss of moisture. Permits transplanting out of season.

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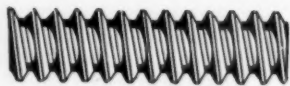
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The S-W Supply Co., D. 33, Girard, Kan.

purpose, Murphy Rhod-Azalea Gardens, Rolling Bay, Wash., received second prize, and Hopkins Nursery, Bothell, Wash., third.

For a spring garden, to include annuals, perennials, bulbs, flowering trees and shrubs, Gordon Edwards, Bellevue, Wash., was first, and L.N. Roberson, Seattle, second.

### At Minneapolis.

The annual flower show, staged in connection with the home beautiful show, March 17 to 22, at the Civic Auditorium, Minneapolis, Minn., drew exhibits from two nursery firms, as well as more florists.

Holm & Olson, Inc., St. Paul, displayed specimen shrubs, many in flower; a pair of pyramid bay trees, and a pair of fine jasmines in bloom. Tulips, narcissi and many other flowering plants made up a colorful display.

The attractive display of the Rose Hill Nursery, Minneapolis, had a background of specimen spruces, fronting which were cedars, junipers and one or two low specimens of pines. In the border were white astilbes and red tulips.

The state nursery inspection department set up an interesting display, showing winter and summer injury by rodents, with recommendations for their control.

### At Milwaukee.

The spring show, March 15 to 22, at Milwaukee, Wis., was one of the most successful ever held there.

The theme of this year's show was colonial, the architectural designs copying those of Williamsburg, Va.

Near the center, the front of a stone house was landscaped by Singer Bros., Inc. The garden lane was outstanding and was created by the August Kellner Co., most of the plants being furnished by this firm. Among growers contributing to the garden lane was Holton & Hunkel Co.

## KENTUCKY CONTRACT.

Sealed bids for improvement of roads will be received by the department of highways at Frankfort, Ky., until April 11 on several county projects, among them the planting of the Louisville-Elizabethtown road, requiring 333 trees and shrubs, 38,937 square yards of bluegrass sod, 7,230 pounds of grass seeds, 29,690 pounds of 4-8-12 fertilizer, etc.

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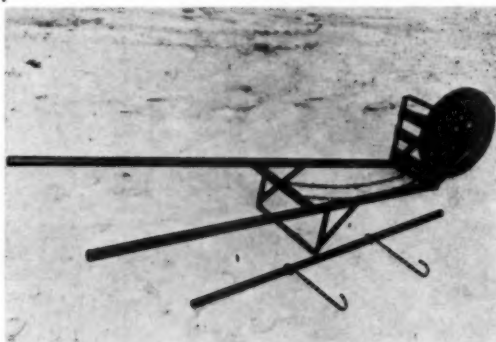
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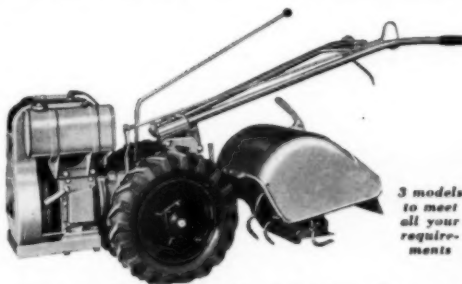
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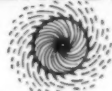
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